

PMC-D40L

SERVICE MANUAL

Ver 1.0 1999. 07

AEP Model
UK Model
E Model
Australian Model

PMC-D40L is the Personal Component System.
The mechanical and electrical specifications of PMC-D40L
are almost same as PMC-D307L.
So this manual contains only the points which differ from
PMC-D307L service manual (9-924-943-11).

• PARTS LIST

Page	PMC-D307L				PMC-D40L			
58	EXPLODED VIEWS				EXPLODED VIEWS			
	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>	
	* 2	A-3321-478-A	TUNER BOARD, COMPLETE (EXCEPT IT,EE)		* A-3322-099-A	TUNER BOARD, COMPLETE (IT)		
	* 2	A-3321-479-A	TUNER BOARD, COMPLETE (IT)		* A-3322-157-A	TUNER BOARD, COMPLETE (IT)		
	4	3-014-125-01	CABINET (REAR)		3-014-125-21	CABINET (REAR) (IT)		
	4	-----	-----		3-014-125-31	CABINET (REAR) (IT)		
59	* 5	A-3321-480-A	AUDIO BOARD, COMPLETE		* A-3322-100-A	AUDIO BOARD, COMPLETE		
	6	3-014-127-01	CASE (LOWER)		3-014-127-11	CASE (LOWER)		
59	51	X-3373-799-1	LID (TERMINAL) ASSY		X-3377-837-1	LID (TERMINAL) ASSY		
	52	X-3376-075-2	LID ASSY, CASSETTE		X-3377-838-1	LID ASSY, CASSETTE		
	53	X-3376-074-1	PANEL ASSY, FRONT		X-3377-909-1	PANEL (FRONT) ASSY		
	54	3-014-091-01	BUTTON (MAIN)		3-014-091-21	BUTTON (MAIN)		
	55	3-014-090-01	CABINET (FRONT)		3-014-090-11	CABINET (FRONT)		
	56	3-014-092-01	BUTTON (UPPER)		3-014-092-11	BUTTON (UPPER)		
	* 63	A-3321-474-A	LINE BOARD, COMPLETE		* A-3322-098-A	LINE BOARD, COMPLETE		
	65	3-014-096-01	HOLDER (CASSETTE)		3-014-096-11	HOLDER (CASSETTE)		
60	* 101	A-3321-485-A	CD BOARD, COMPLETE		* A-3322-101-A	CD BOARD, COMPLETE		
	* 103	A-3321-484-A	CONTROL BOARD, COMPLETE (EXCEPT EE)		* A-3322-103-A	CONTROL BOARD, COMPLETE		
	106	3-014-123-01	CABINET (CD)		3-014-123-11	CABINET (CD)		
	108	3-351-377-11	DAMPER		3-922-112-31	DAMPER		
	110	3-014-124-01	LID (CD)		3-014-124-11	LID (CD)		
64	301	X-3376-076-1	SPEAKER (FRONT) SUB ASSY		X-3377-839-1	SPEAKER (FRONT) SUB ASSY		
	302	3-028-031-11	BOX, SPEAKER		3-028-031-21	BOX, SPEAKER (AEP)		
	302	-----	-----		3-028-031-31	BOX, SPEAKER (AEP)		
65	△ T501	1-431-353-11	TRANSFORMER, POWER		△ 1-433-453-11	TRANSFORMER, POWER		
	351	X3376-076-1	SPEAKER (FRONT) SUB ASSY		X-3377-839-1	SPEAKER (FRONT) SUB ASSY		
65	352	3-028-031-11	BOX, SPEAKER		3-028-031-21	BOX, SPEAKER (AEP)		
	352	-----	-----		3-028-031-31	BOX, SPEAKER (EXCEPT AEP)		
	356	3-028-030-11	PANEL (R), REAR		3-028-030-01	CHASSIS (R), REAR (AEP)		
	356	-----	-----		3-028-030-11	CHASSIS (R), REAR (EXCEPT AEP)		

• Abbreviation

IT : Italian model
CET : East European and Russian model
AUS : Australian model
SP : Singapore model

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

PERSONAL COMPONENT SYSTEM



SONY®

MC-Service

• PARTS LIST

Page	PMC-D307L				PMC-D40L			
	ELECTRICAL PARTS LIST				ELECTRICAL PARTS LIST			
	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>		<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
66	*	A-3321-480-A	AUDIO BOARD, COMPLETE		*	A-3322-100-A	AUDIO BOARD, COMPLETE	
69	*	A-3321-485-A	CD BOARD, COMPLETE		*	A-3322-101-A	CD BOARD, COMPLETE	
70	*	A-3321-484-A	CONTROL BOARD, COMPLETE (EXCEPT EE)		*	A-3322-103-A	CONTROL BOARD, COMPLETE	
73	*	A-3321-474-A	LINE BOARD, COMPLETE		*	A-3322-098-A	LINE BOARD, COMPLETE	
75	*	A-3321-478-A	TUNER BOARD, COMPLETE (EXCEPT IT,EE)		*	A-3322-099-A	TUNER BOARD, COMPLETE (EXCEPT IT)	
	*	A-3321-479-A	TUNER BOARD, COMPLETE (IT)			A-3322-157-A	TUNER BOARD, COMPLETE (IT)	
	MISCELLANEOUS *****					MISCELLANEOUS *****		
	△ T501	1-431-353-11	TRANSFORMER, POWER		△	1-433-453-11	TRANSFORMER, POWER	
	ACCESSORIES & PACKING MATERIALS *****					ACCESSORIES & PACKING MATERIALS *****		
77		3-860-142-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN)(AEP,UK,SP,EE)			3-867-143-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN)(AEP,UK,AUS,SP)	
		3-860-142-21	MANUAL, INSTRUCTION (FRENCH,SPANISHI)(AEP,SP)			3-867-143-21	MANUAL, INSTRUCTION (FRENCH,SPANISHI)(AEP,SP)	
		3-860-142-31	MANUAL, INSTRUCTION (DUTCH,SWEDISH,PORTUGUESE)(AEP)			3-867-143-31	MANUAL, INSTRUCTION (DUTCH,SWEDISH,SPANISH)(AEP)	
		3-860-142-41	MANUAL, INSTRUCTION (ITALIAN)(IT)			3-867-143-41	MANUAL, INSTRUCTION (ITALIAN)(IT)	
		3-860-142-81	MANUAL, INSTRUCTION (POLISH,CZECH,HUNGALIAN)(CET)			3-867-143-51	MANUAL, INSTRUCTION (POLISH,CZECH,HUNGALIAN)(CET)	
		3-860-142-91	MANUAL, INSTRUCTION (RUSSIAN)(EE)			3-867-143-61	MANUAL, INSTRUCTION (SWEDISH,FINNISH)(CET)	
		3-864-758-11	MANUAL, INSTRUCTION (SWEDISH,FINNISH)(CET)					

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

PMC-D307L

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*AEP Model
UK Model
Singapore Model*



CD Section	Model Name Using Similar Mechanism	PMC-D305L
	CD Mechanism Type	KSM-213CDM
	Optical Pick-up Name	KSS-213C
Tape Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-D307

SPECIFICATIONS

CD player section

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs

Wave length: 780 nm

Emission duration: Continuous

Laser output: Less than 44.6 μ W

(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

Spindle speed

200 r/min (rpm) to 500 r/min (rpm) (CLV)

Number of channels

2

Frequency response

20 - 20,000 Hz $\pm 1/-2.5$ dB

Wow and flutter

Below measurable limit

Radio section

Frequency range

FM	Except Italian, East European model	87.6 - 107 MHz
	Italian model	87.5 - 108 MHz
	East European model	65 - 74 MHz
		87.5 - 108 MHz
MW		531 - 1,602 kHz
LW		153 - 279 kHz

IF

FM: 10.7 MHz

MW/LW: 450 kHz

Aerials

FM: External aerial terminal

MW/LW: External aerial terminal

Cassette-corder section

Recording system

4-track 2-channel stereo

Fast winding time

Approx. 130 s (sec.) with Sony cassette C-60

Frequency response

TYPE I (normal): 40 - 15,000 Hz

General

Speaker

Full range: 8 cm (3 1/4 in.) dia., 6.0 ohms,
cone type $\times 2$

Input

LINE IN jack (stereo minijack)

Minimum input level 250 mV

Outputs

Headphones jack (stereo minijack)

For 16 - 68 ohms impedance headphones

LINE OUT jack (stereo minijack)

Rated output level 440 mV at load impedance

47 kilohms

Optical digital output (optical output connector)

Wave length: 630 - 690 nm

Maximum power output

10 W + 10 W

Power requirements

For personal component system:

230 V AC, 50 Hz

For remote commander:

3 V DC, 2 R6 (size AA) batteries

— Continued on next page —

PERSONAL COMPONENT SYSTEM



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Power consumption

AC 35 W

Dimensions (incl. projecting parts)

Player: approx. 130 × 211 × 200 mm (w/h/d)
(5 1/8 × 8 3/8 × 7 7/8 inches)

Left speaker: approx. 130 × 210 × 235 mm
(w/h/d) (5 1/8 × 8 3/8 × 9 3/8 inches)

Right speaker: approx. 130 × 211 × 200 mm
(w/h/d) (5 1/8 × 8 3/8 × 7 7/8 inches)

Mass

Player: approx. 1.7 kg (3 lb. 12 oz.)

Left speaker: approx. 3.2 kg (7 lb. 1 oz.)

Right speaker: approx. 1.6 kg (3 lb. 9 oz.)

Supplied accessories

Remote commander (RMT-C305AD) (1)

FM lead aerial (1)

MW/LW loop aerial (1)

Audio connecting cord (1)

Design and specifications are subject to change without notice.

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SAFETY-RELATED COMPONENT WARNING!!

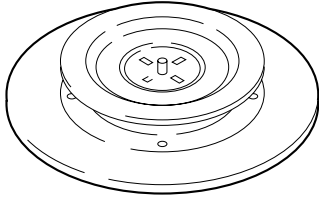
COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

- Code number of Chuck Plate Jig: X-4918-255-1



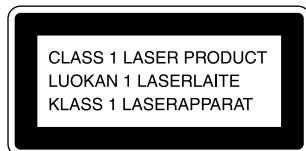
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.



This Compact Disc player is classified as a CLASS 1 LASER product.

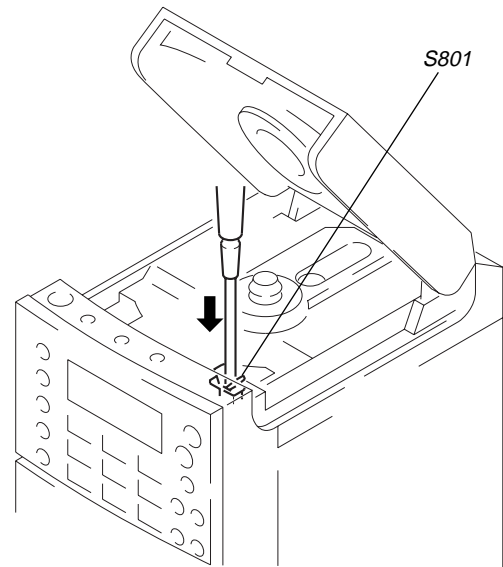
The CLASS 1 LASER PRODUCT table is location on the rear exterior.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Turn POWER switch on with to disc inserted and press FUNCTION button to CD position.
2. Open the lid (CD).
3. Turn on S801 as following figure.
4. Press the ► (CD) button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
Objective lens moves up and down three times for focus search.



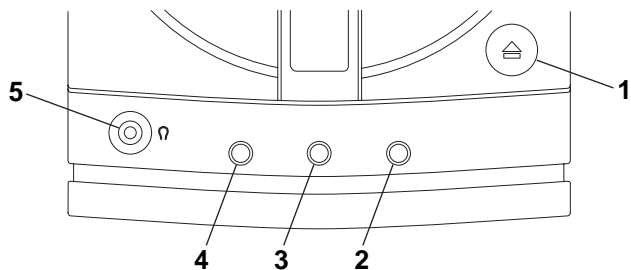
HOW TO CHANGE THE FM CERAMIC FILTERS

This model is used three ceramic filters of CF1, 2 and CF3. Therefore, the ceramic filters must change three pieces together since it's supply three pieces in one package as a spare parts.

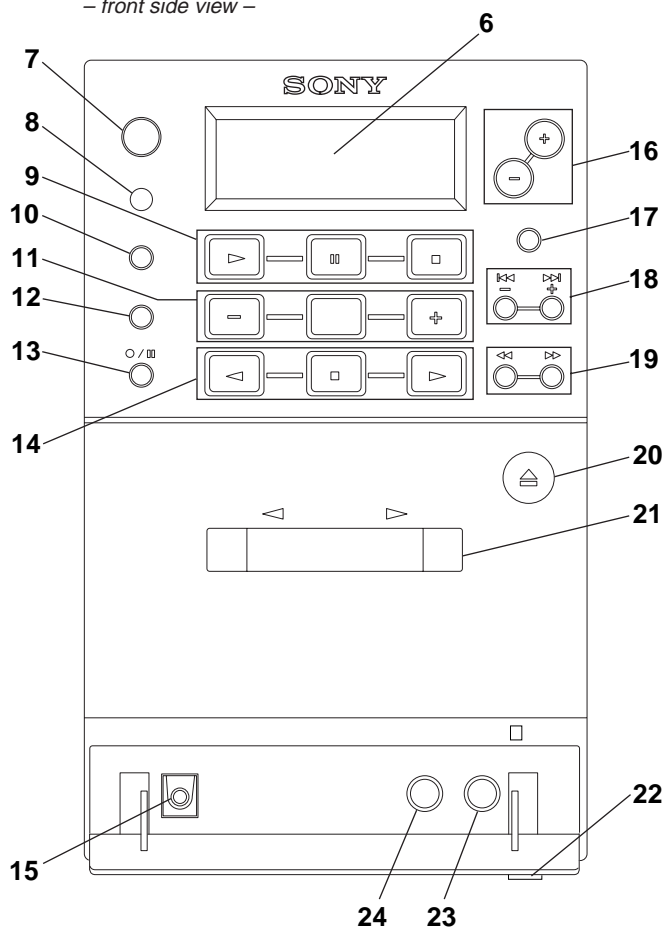
SECTION 2 GENERAL

2-1. LOCATION OF CONTROLS

– upper side view –



– front side view –



- | | |
|---------------------------------|---|
| 1. OPEN/CLOSE (CD) button | 12. DIR MODE button |
| 2. PLAY MODE MONO/ST/ISS button | 13. (Recording/pause) button |
| 3. PGM SET/AUTO PRESET button | 14. TAPE operation buttons |
| 4. SOUND button | (Reverse) button |
| 5. (Headphones) jack | (Stop) button |
| 6. Display window | (Play) button |
| 7. OPERATE (power) button | 15. OPTICAL DIGITAL OUT (CD) jack |
| 8. Remote sensor window | 16. VOLUME +/- button |
| 9. CD operation buttons | 17. DISPLAY/ENTER button |
| (Play) button | 18. TUNE +/- button |
| (Pause) button | 19. button |
| (Stop) button | 20. PUSH (cassette holder open) button |
| 10. FUNCTION button | 21. Cassette holder |
| 11. RADIO operation buttons | 22. OPEN knob |
| PRESET – button | 23. LINE OUT jack |
| BAND button | 24. LINE IN jack |
| PRESET + button | |

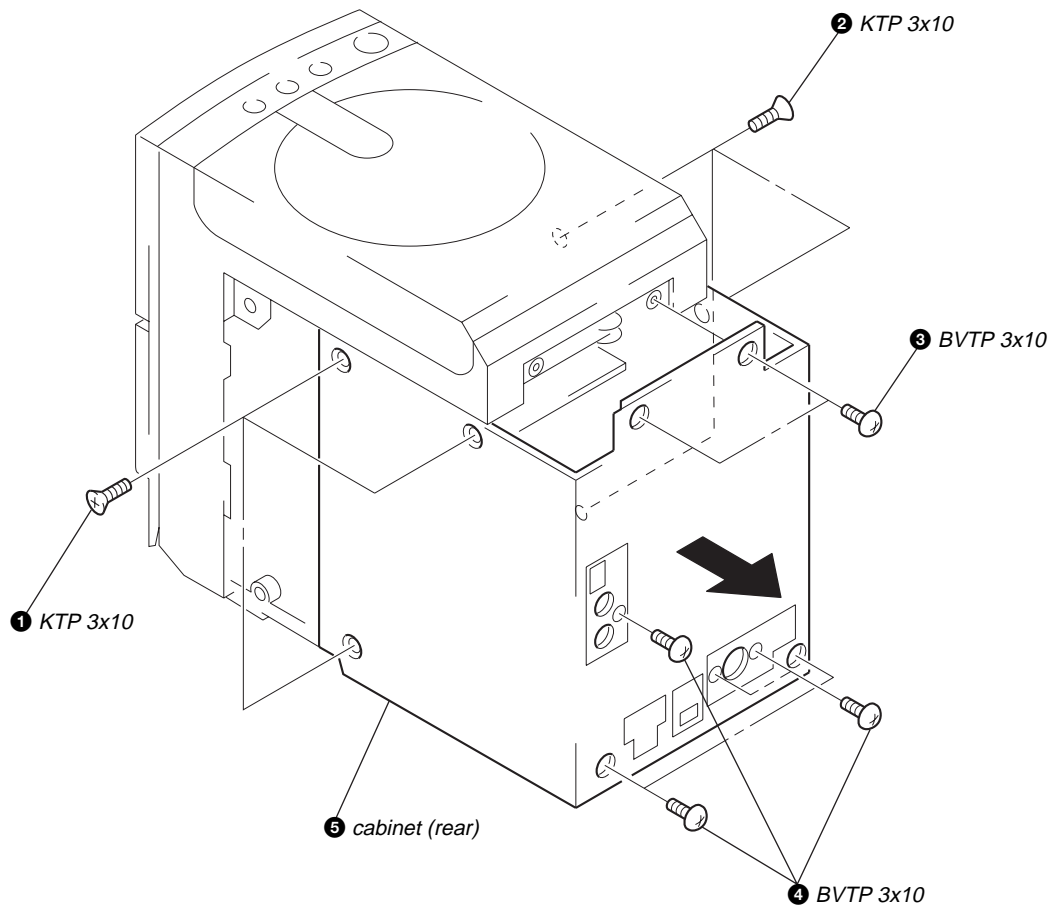
SECTION 3 DISASSEMBLY

- The equipment can be removed using the following procedure.

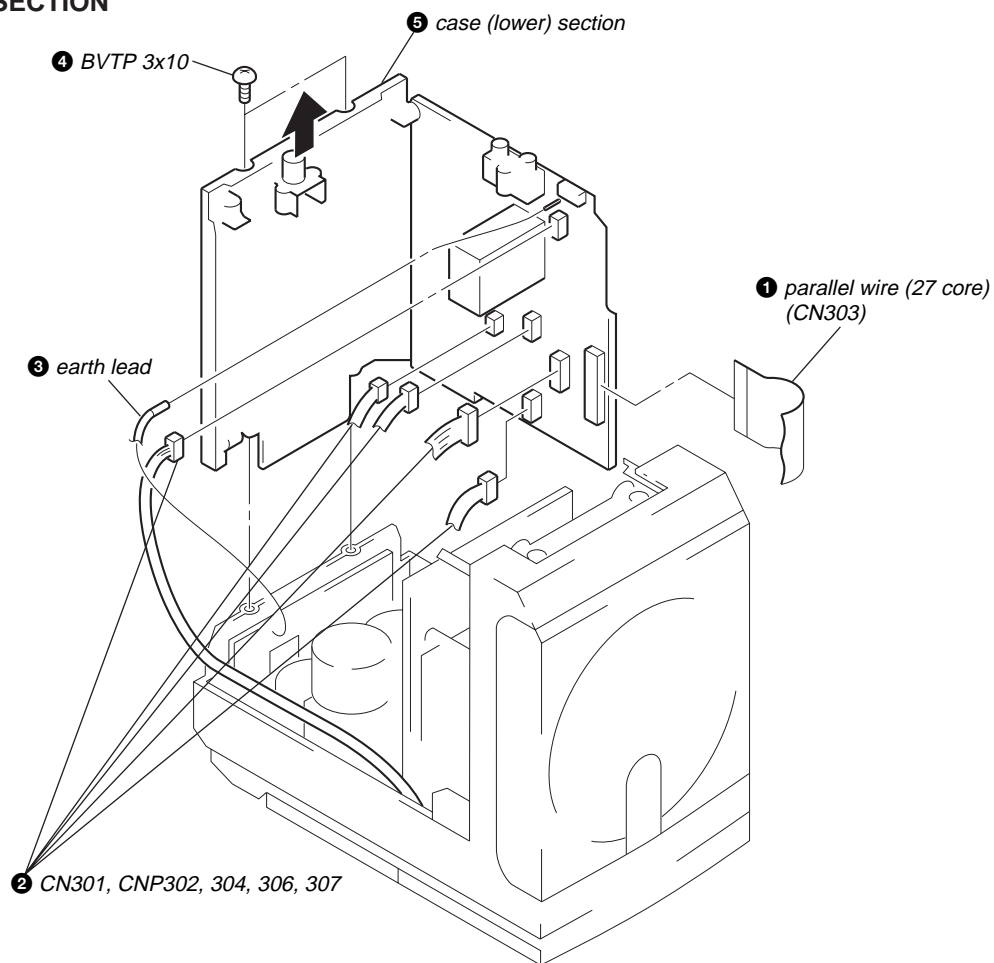
Set → Cabinet (rear) → Case (lower) section → Cabinet (CD) section → CD, Control board → Optical pick-up section → Tape mechanism deck section → Rear chassis (speaker) section → Amplifier, terminal, jack board → Power board

Note : Follow the disassembly procedure in the numerical order given.

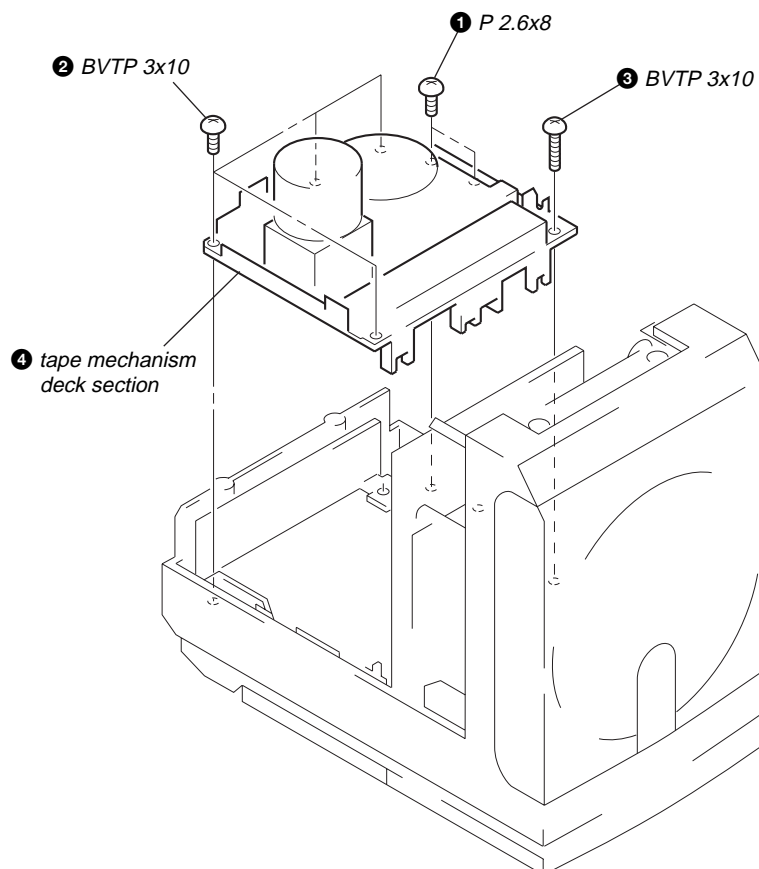
3-1. CABINET (REAR)



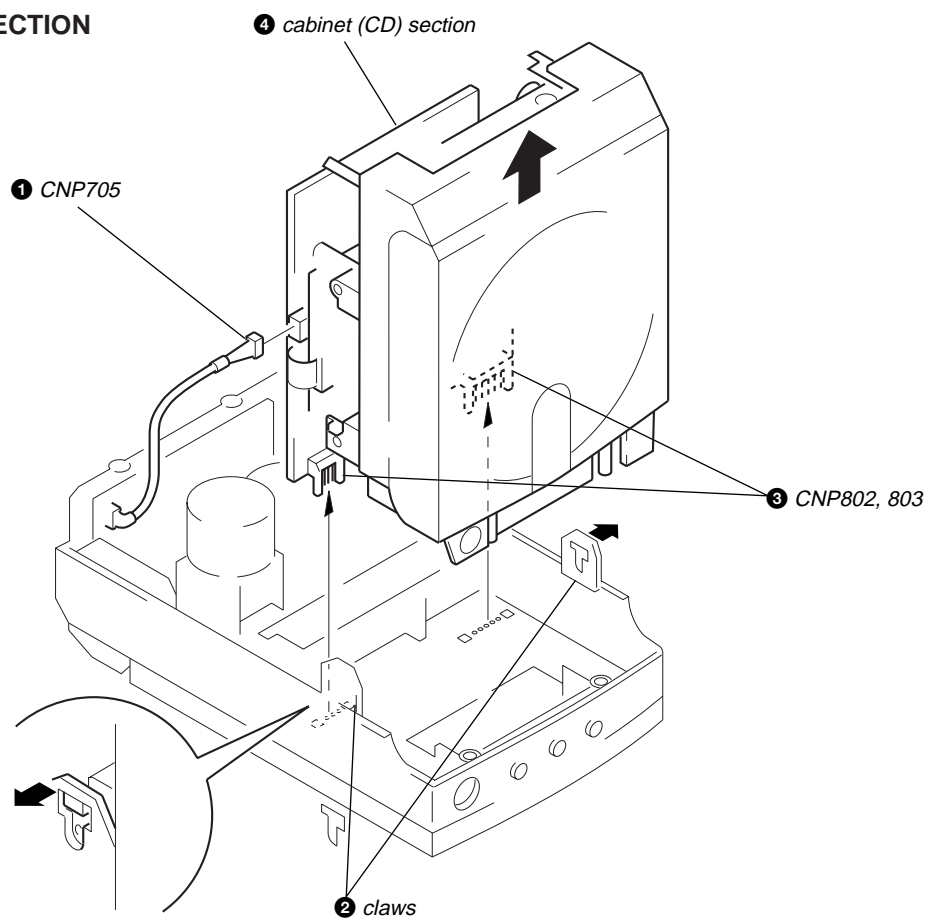
3-2. CASE (LOWER) SECTION



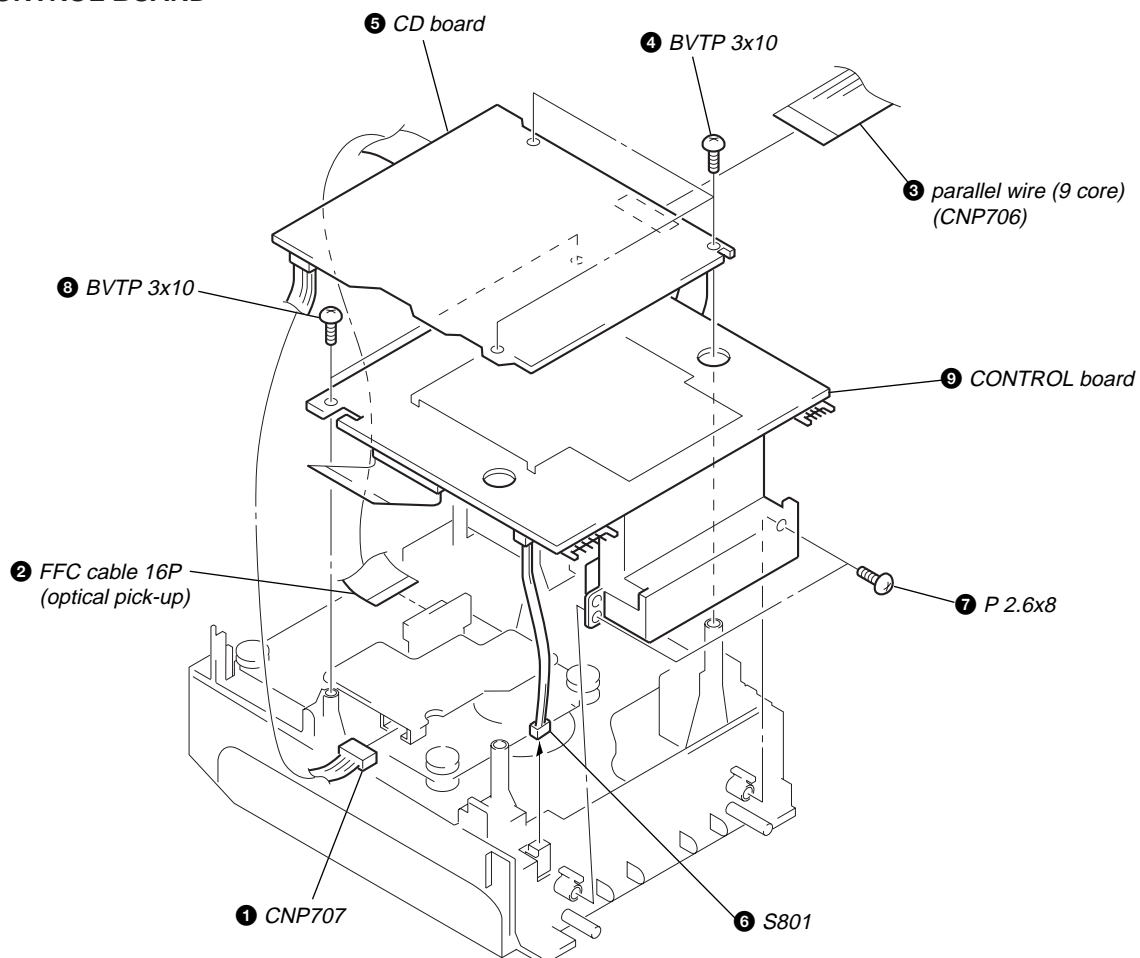
3-3. TAPE MECHANISM DECK SECTION



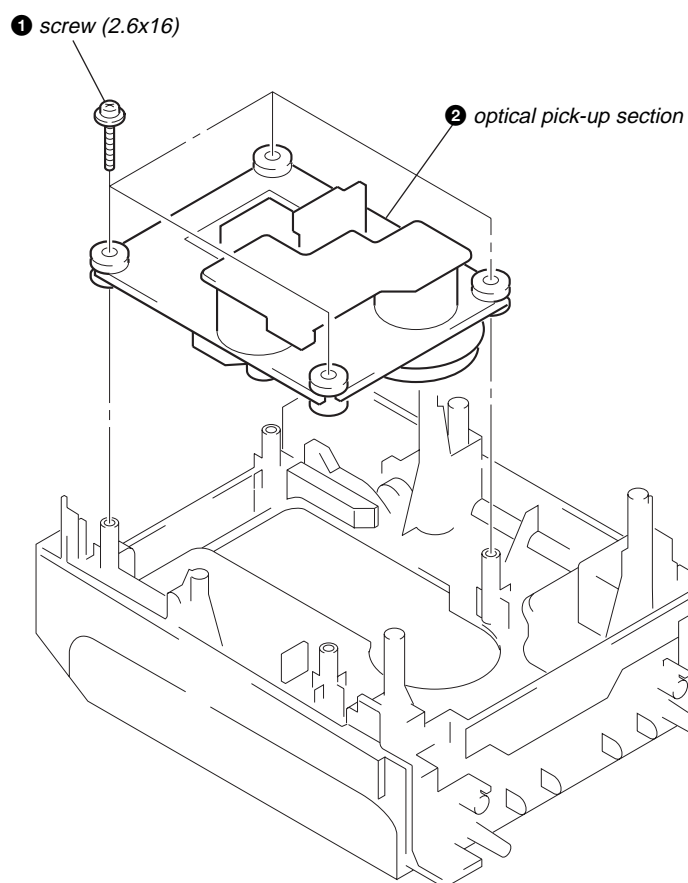
3-4. CABINET (CD) SECTION



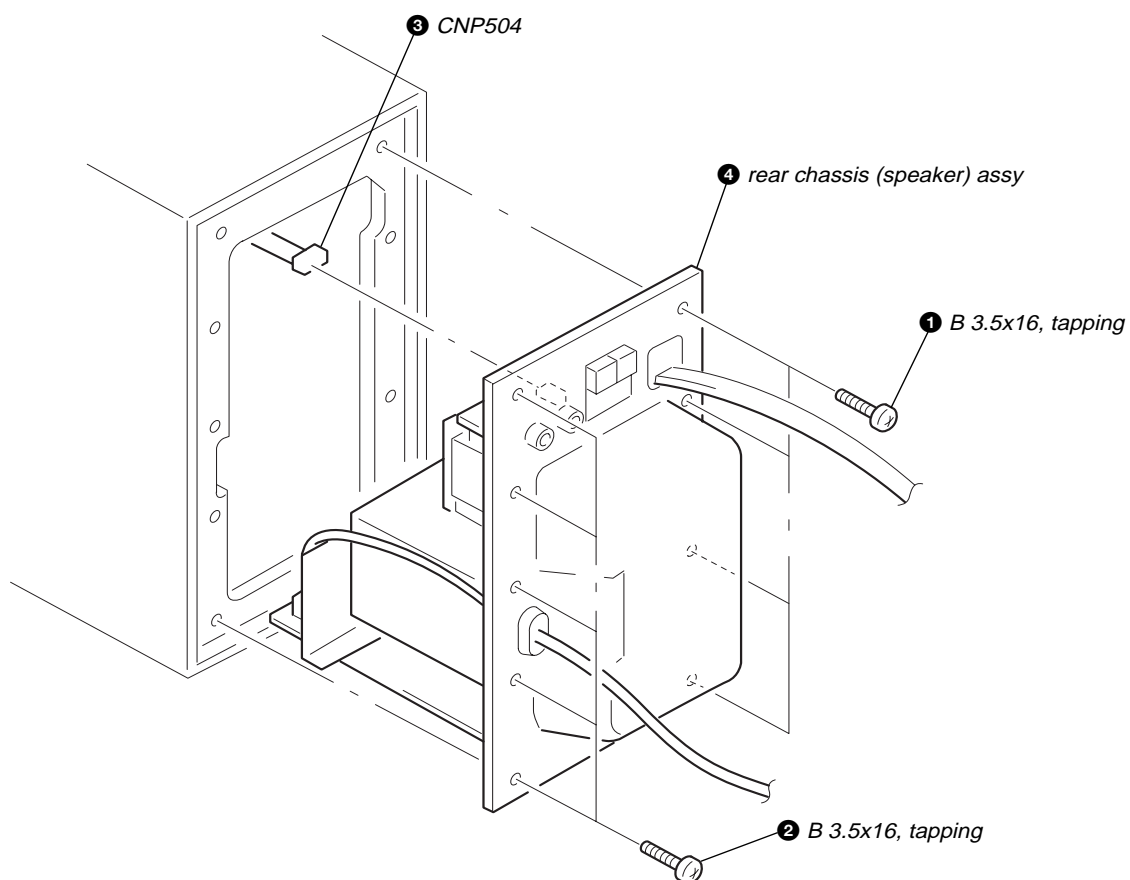
3-5. CD, CONTROL BOARD



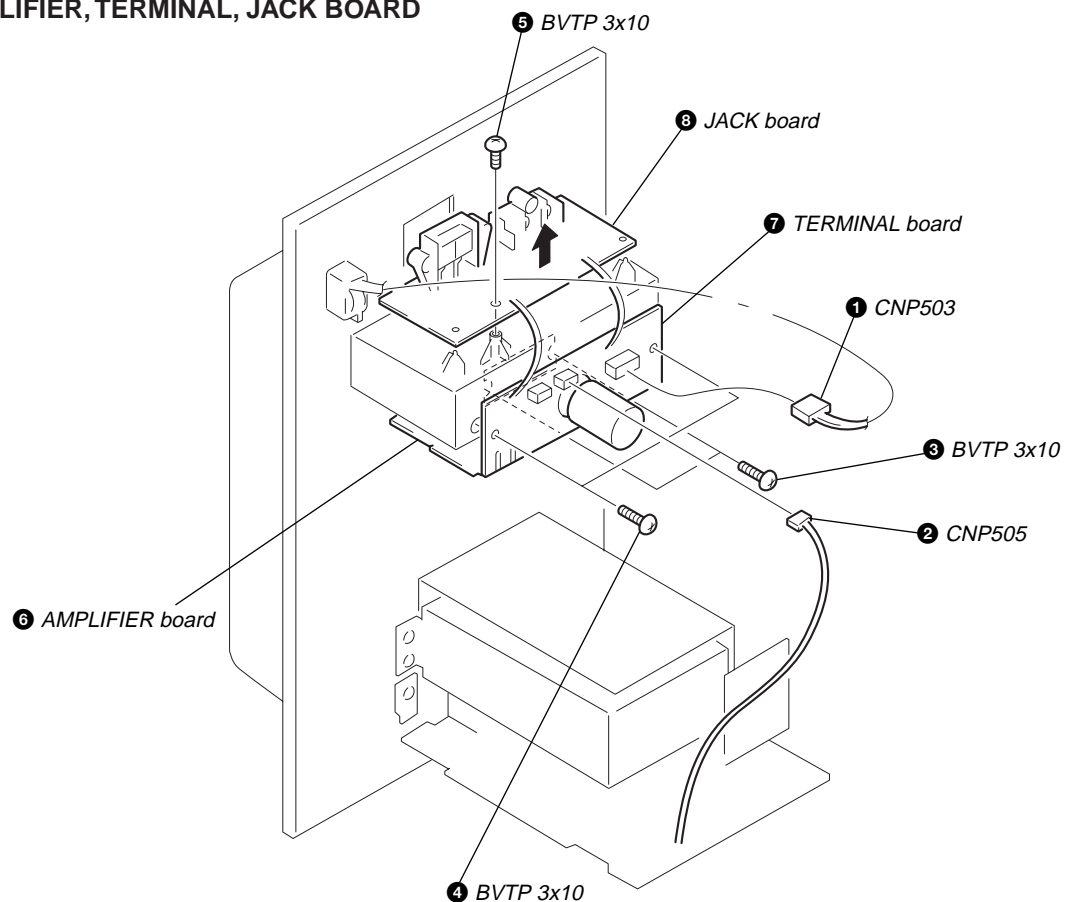
3-6. OPTICAL PICK-UP SECTION



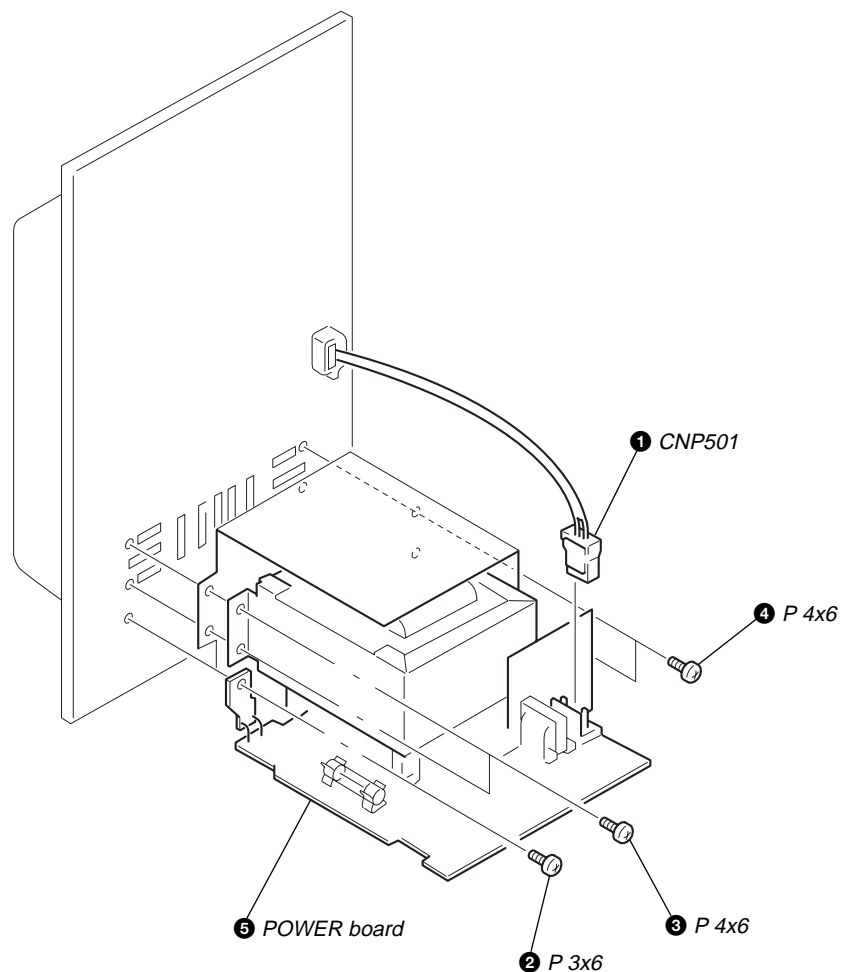
3-7. REAR CHASSIS (SPEAKER) SECTION



3-8. AMPLIFIER, TERMINAL, JACK BOARD



3-9. POWER BOARD



SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
 record/playback/erase head pinch roller
 rubber belts capstan
 idlers
2. Demagnetize the record/playback/erase head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	30 – 70 g•cm (0.42 – 1.02 oz•inch)
FWD Back tension		2.0 – 6.0 g•cm (0.028 – 0.076 oz•inch)
REV	CQ-102RC	30 – 70 g•cm (0.42 – 1.02 oz•inch)
REV Back tension		2.0 – 6.0 g•cm (0.028 – 0.076 oz•inch)
FF, REW	CQ-201B	80 – 170 g•cm (1.12 – 2.38 oz•inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 90 g (more than 3.17 oz)
REV	CQ-403R	

SECTION 5 ELECTRICAL ADJUSTMENTS

TAPE SECTION **0 dB = 0.775 V**

1. The adjustments should be performed in the order given in the service manual. (As a general rule. Playback circuit adjustment should be completed before performing recording circuit adjustment.)
2. The adjustments should be performed for both L-ch and R-ch unless otherwise indicated.

Standard Output Level

	SP OUT	PHONES
Load impedance	6 Ω	32 Ω
Output level	0.775 V (0 dB)	0.25 V (–10 dB)

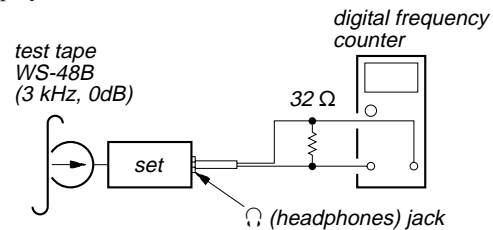
Test Tape

Type	Signal	Used for
WS-48B	3 kHz, 0 dB	Tape speed adjustment
P-4-A063	6.3 kHz, –10 dB	Head azimuth adjustment

Tape Speed Adjustment

Procedure:

Mode: playback

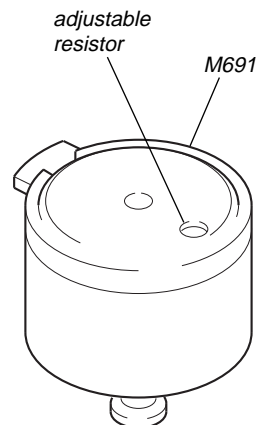


Adjustment Values:

Digital frequency counter
2,970 to 3,030 Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30 Hz).

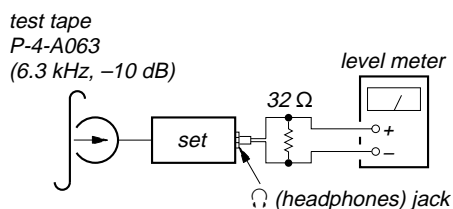
Adjustment Location:



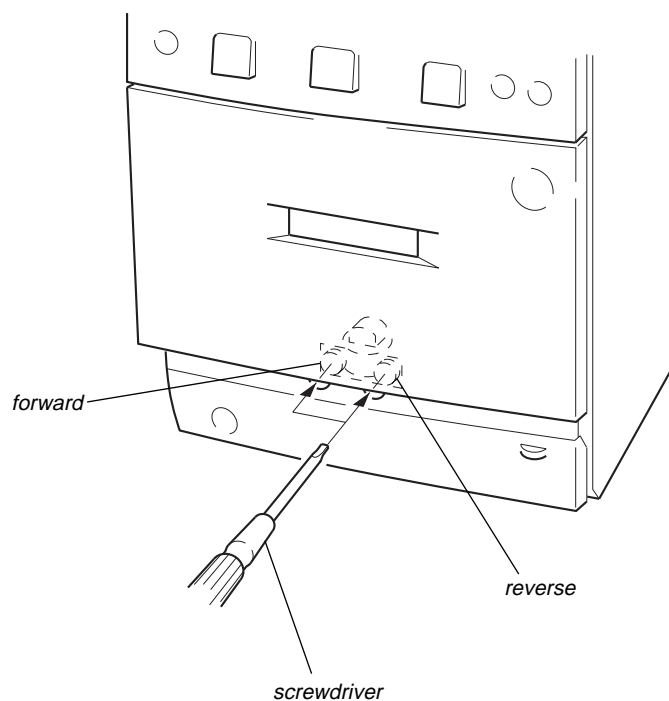
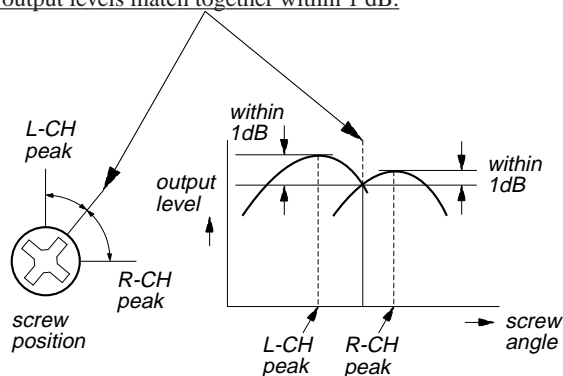
Record/Playback Head Azimuth Adjustment

Procedure:

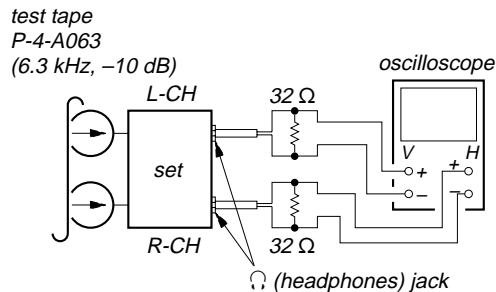
1. Mode: playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



3. Phase Check
Mode: playback



Screen pattern				
in phase	45°	90°	135°	180°
Good			Wrong	

4. After the adjustment, lock the screws with locking compound.

TUNER SECTION 0 dB = 1 μ V

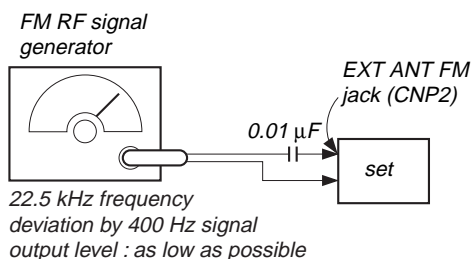
Precautions in Repairing

Note : As a tuner unit (TU1) is difficult to repair if faulty, replace it with new one.

• FM Section

Setting:

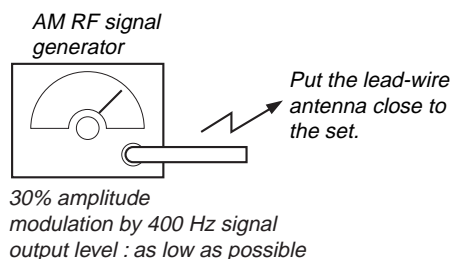
FUNCTION button: FM



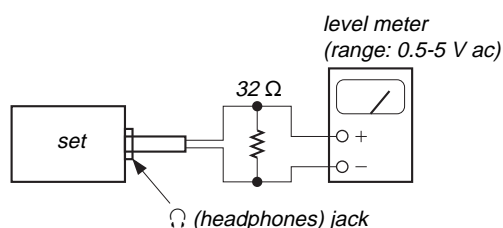
• MW/LW Section

Setting:

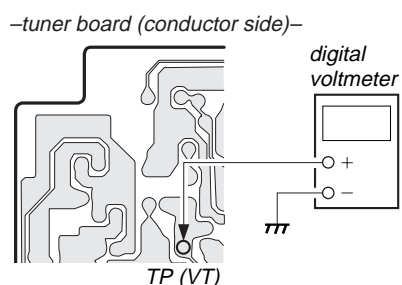
FUNCTION button: MW or LW



• Connecting Level Meter (FM, MW and LW)



• Connecting Digital Voltmeter (FM, MW and LW)



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT

Frequency Display	87.5 MHz (65 MHz)	108 MHz
Reading on Digital voltmeter	1.3 V or more (1.0 V or more)	9.0 V or less (10.0 V or less)
Adjustment Part	<confirmation>	<confirmation>

FM TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.		
<confirmation>	<confirmation>	
87.5 MHz (68 MHz)	108 MHz (102 MHz)	

MW FREQUENCY COVERAGE ADJUSTMENT

Frequency Display	531 kHz	1,611 kHz
Reading on Digital voltmeter	0.85 \pm 0.5 V	6.8 \pm 1.5 V
Adjustment Part	<confirmation>	<confirmation>

MW TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.		
L3	CT4	
621 kHz	1,404 kHz	

AM IF ADJUSTMENT

Adjust for a maximum reading on level meter.		
CFT1		
450 kHz		

LW FREQUENCY COVERAGE ADJUSTMENT

Frequency Display	153 kHz	279 kHz
Reading on Digital voltmeter	0.6 \pm 0.4 V	7.5 \pm 0.5 V
Adjustment Part	<confirmation>	L4

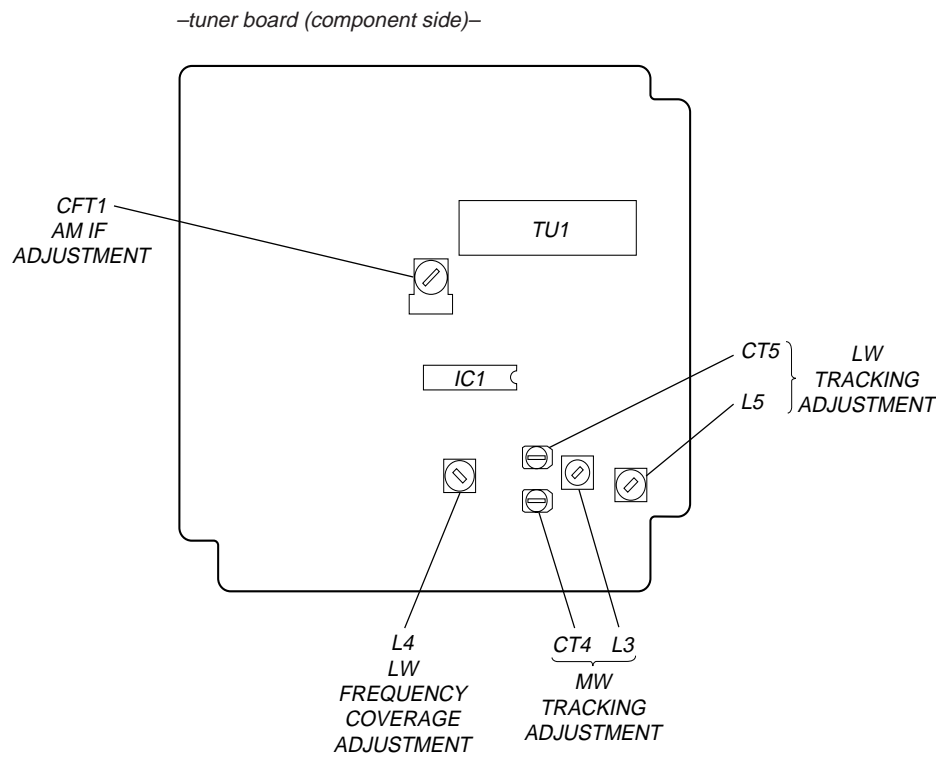
LW TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.		
L5	CT5	
162 kHz	261 kHz	

() : East European model

Adjustment Location: TUNER board (See page 13.)

Adjustment Location:



CD SECTION

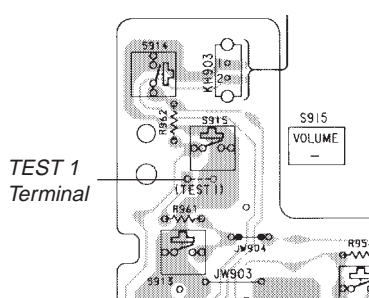
Notes on Adjustment

1. Perform adjustment in test mode.
After adjustments, be sure to release test mode.
2. Perform adjustments in the order given.
3. Use the disc (YEDS-18, Part No. 3-702-101-01) only when so indicated.

How to Put the Set into Test Mode

1. Disconnect an AC plug cord. (Power is not applied to the set.)
2. Solder across the TEST1 terminal.
3. Close the lid (CD).
4. Connect an AC plug cord.

[SW (A) BOARD] (Conductor Side)



How to Release the Test Mode

1. Be sure to disconnect the AC plug cord and remove the solder bridge at the TEST1 terminal connected before in setting.
2. The set thus becomes available for normal operation

Before Beginning Adjustment

Put the set into test mode and perform the following checks.
Repair if there are any problems.

• Sled Motor Check

Press the ►►, ◄◄ buttons and confirm that the optical pick-up moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises.

►► : Optical pick-up moves to the outer circumference

◄◄ : Optical pick-up moves to the inner circumference

• Focus Search Check

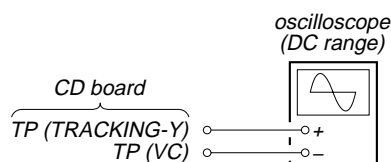
1. Press the ► button. (Focus search operation is performed continuously.)
2. Look at the optical pick-up objective lens and confirm that it moves up and down smoothly, when no catching or abnormal noises.
3. Press the ■ button.
Confirm that focus search operation stops. If it does not, press the ■ button again longer.

Note: When the malfunction is occurred by mis-passing other keys, turn off the power and check again from making the test mode.

E-F Balance Adjustment

This adjustment is to be done when the optical pick-up is replaced.

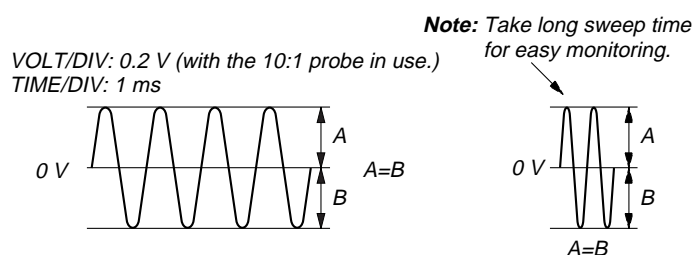
Procedure:



1. Connect the oscilloscope to TP (TRACKING-Y) and TP (VC) on the CD board.
2. Insert the disc (YEDS-18) in and close the lid (CD).
3. Put the set into test mode.
4. Press the ►► and ◄◄ buttons to move the optical pick-up to the center.
5. Press the ► button.

[From focus searching, focus is turned ON while entering CLV drawing-in mode. Tracking and sled are turned OFF.]

6. Adjust RV703 so that the oscilloscope traverse waveform is symmetrical, as shown in the figure below.



Adjustment value: 0.4 ± 0.2 Vp-p (A + B)

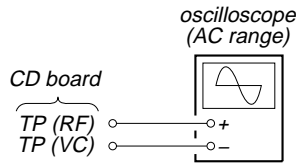
7. Release the test mode after adjustment is completed.

Adjustment Location: CD board (See page 17.)

Focus Bias Adjustment

This adjustment is to be done when the optical pick-up is replaced.

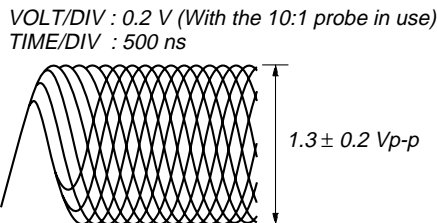
Procedure:



1. Connect the oscilloscope TP (RF) and TP (VC) on the CD board.
2. Insert the disc (YEDS-18) in and close the lid for CD.
3. Put the set into test mode. (See page 14.)
4. Press **▶▶** and **◀◀** buttons to move the optical pick-up to the center. (Move the optical pick-up to the music area on the disc to enable easy visibility of the eye pattern.)
5. Press the **▶** button.

From focus searching, focus is turned ON while entering CLV drawing-in mode. Tracking and sled are turned OFF.
6. Press the **▶** button.
 [Both tracking and sled are turned ON.]
7. Adjust RV701 so that the oscilloscope waveform is as shown in the figure below. (eye pattern)
 A good eye pattern means that the diamond shape (\approx) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

8. Release the test mode after adjustment is completed.

Adjustment Location: CD board (See page 17.)

REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

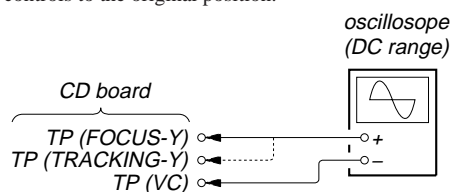
- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

Symptoms \ Gain	Focus	Tracking
<ul style="list-style-type: none"> The time until music starts becomes longer for ■→▶ on automatic selection. (◀◀, ▶▶ buttons pressed.) (Normally takes about 2 seconds.) 	low	low or high
<ul style="list-style-type: none"> Music does not start and disc continues to rotate for ■→▶ or automatic selection. (◀◀, ▶▶ buttons pressed.) 	—	low
<ul style="list-style-type: none"> Sound is interrupted during PLAY. Or time counter display stops progressing. 	—	low
<ul style="list-style-type: none"> More noise during 2-axis device operation. 	high	high

The following is a simple adjustment method.

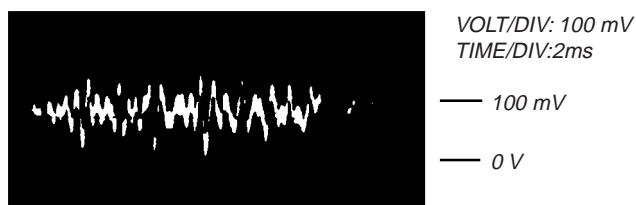
– Simple Adjustment –

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the primary adjustment are only a little different, return the controls to the original position.

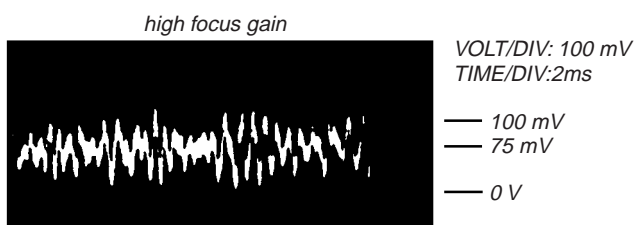
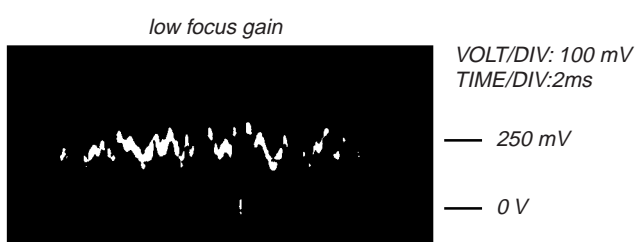


Procedure:

1. Keep the set horizontal.
If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
2. Connect the oscilloscope TP (FOCUS-Y) and TP (VC) on the CD board.
3. Insert the disc (YEDS-18) in and close the lid for CD.
4. Put the set into test mode. (See page 14.)
5. Press the ► button.
[From focus searching, focus is turned ON while entering CLV drawing-in mode. Tracking and sled are turned OFF.]
6. Press the ► button.
[Both tracking and sled are turned ON.]
7. Adjust RV702 so that the waveform is as shown in the figure below. (Focus gain adjustment)



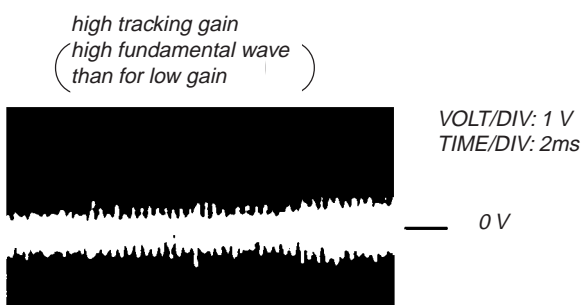
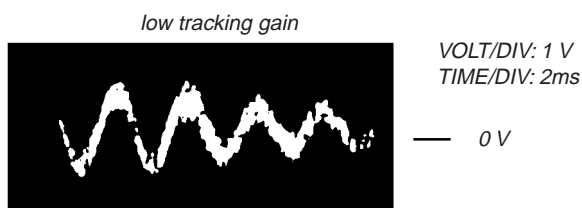
- Inconnect Examples (DC level changes more than on adjusted waveform)



8. Connect the oscilloscope to TP (TRACKING-Y) and TP (VC) on the CD board.
9. Adjust RV704 so that the waveform is as shown in the figure below. (tracking gain adjustment)



- Incorrect Examples (fundamental wave appears)



Note:

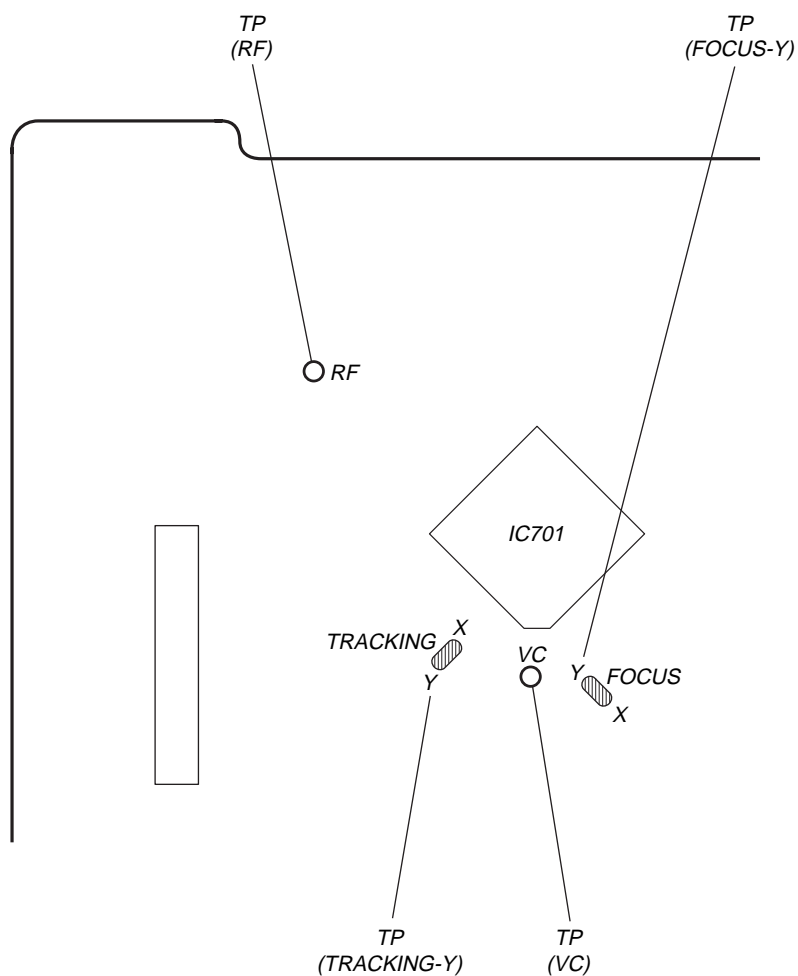
VOLT/DIV: with the 10:1 probe in used.

10. Release test mode after adjustment is completed.

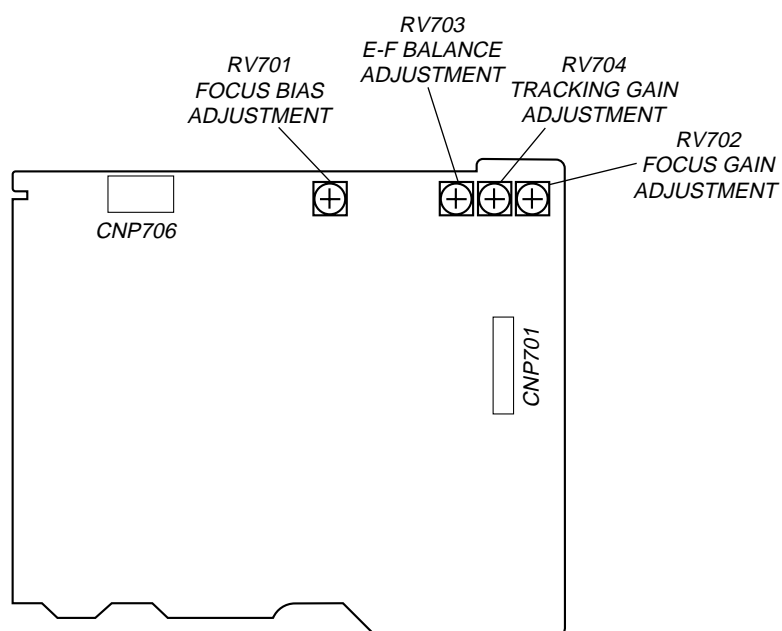
Adjustment Location: CD board (See page 17.)

Connection and Adjustment Location:

—CD board (conductor side)—

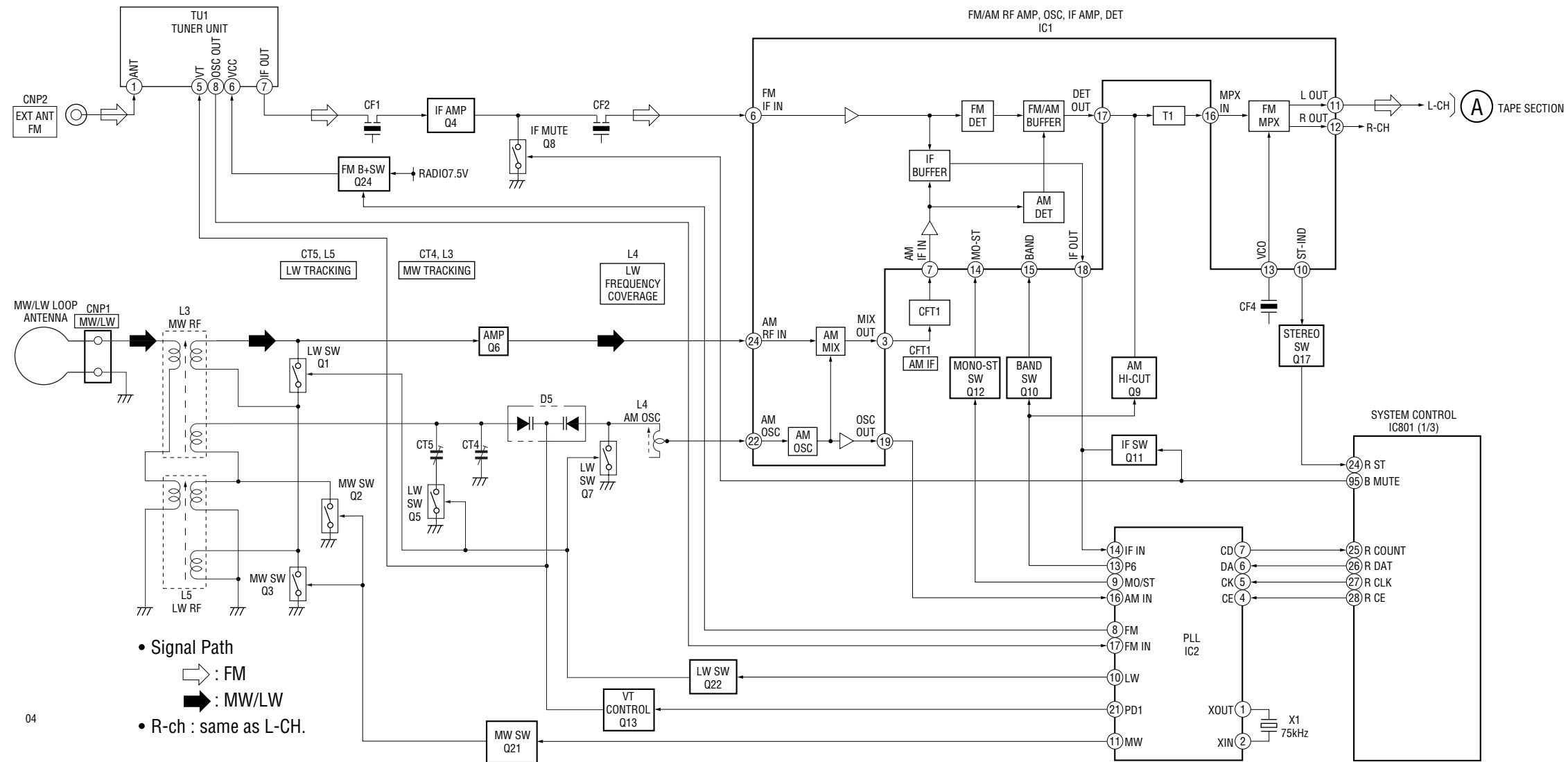


—CD board (component side)—

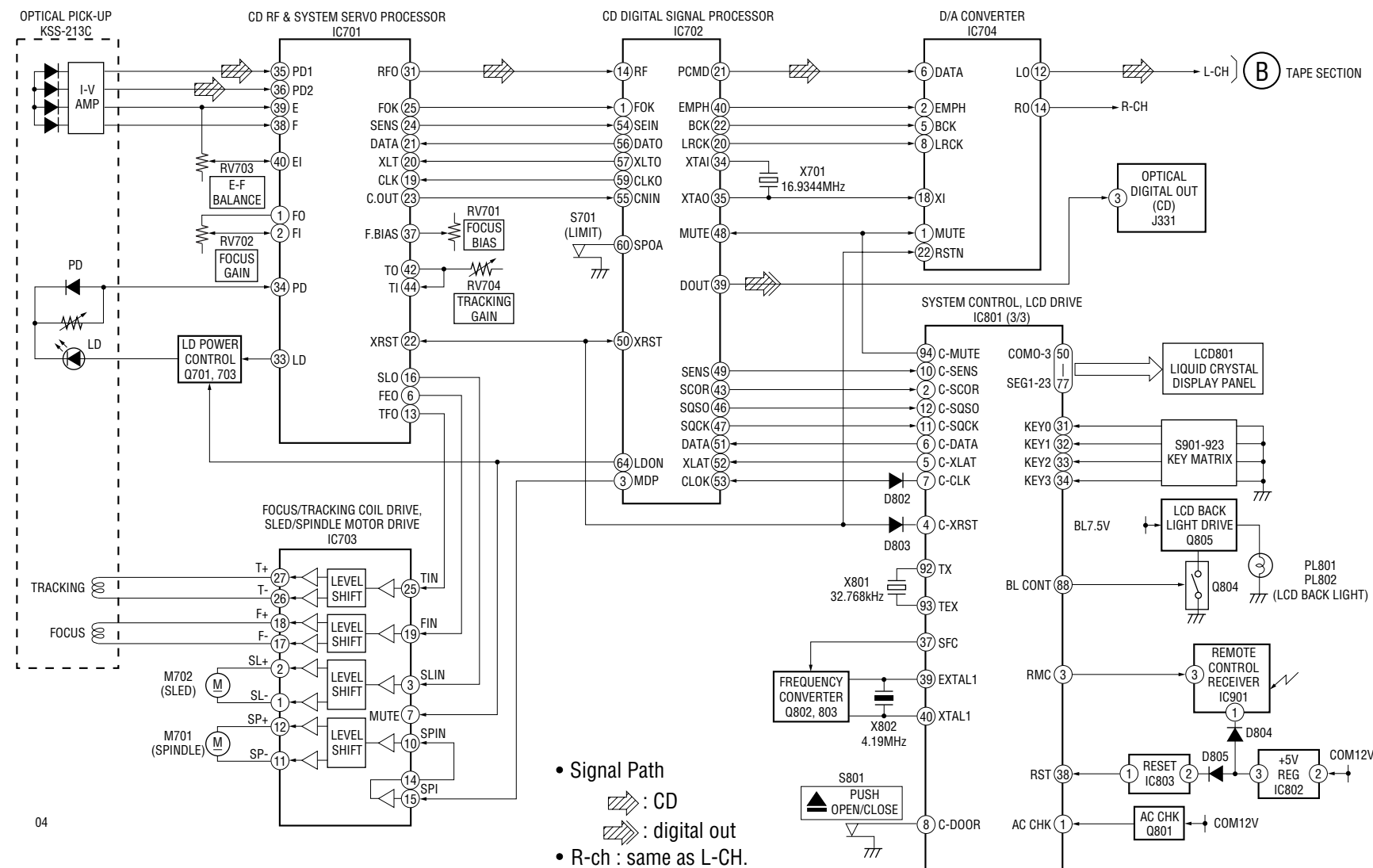


SECTION 6 DIAGRAMS

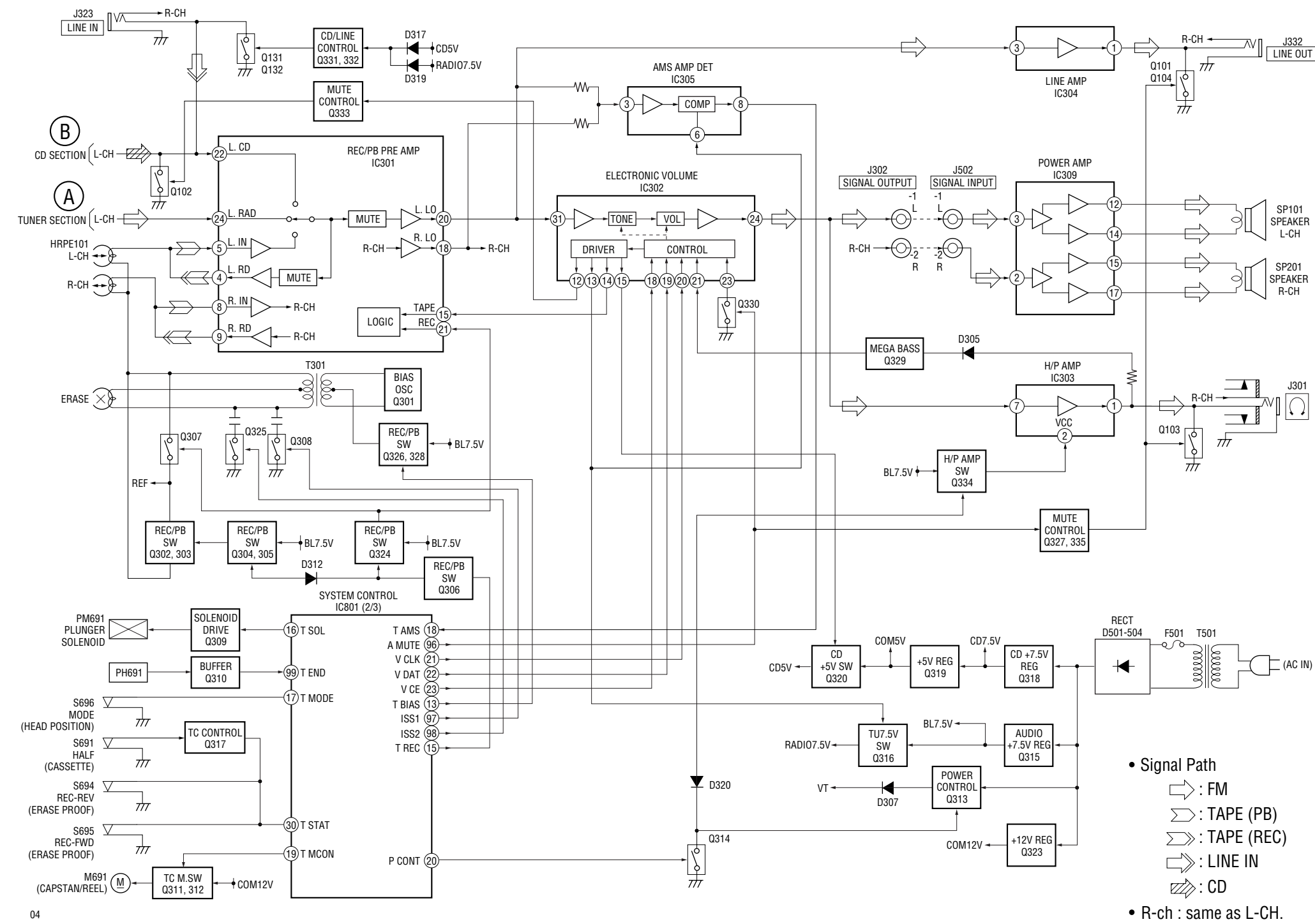
6-1. BLOCK DIAGRAM — TUNER SECTION —



6-2. BLOCK DIAGRAM — CD SECTION —



6-3. BLOCK DIAGRAM — TAPE SECTION —



MC-Service

6-4. IC PIN DESCRIPTION

• IC801 CXP83120A-022Q (SYSTEM CONTROL, LCD DRIVE) (EXCEPT East European Model)

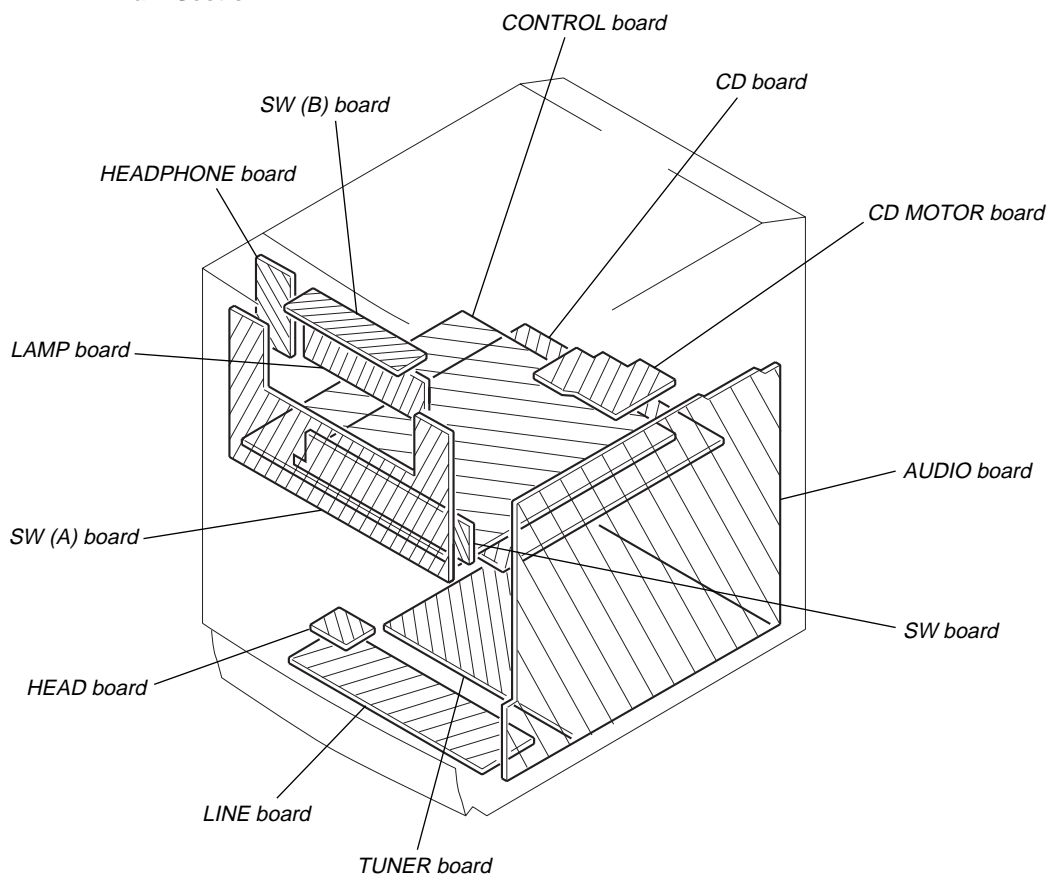
• IC801 CXP83120A-031Q (SYSTEM CONTROL, LCD DRIVE) (East European Model)

Pin No.	Pin Name	I/O	Pin Description
1	AC CHK	I	AC check input
2	C-SCOR	I	CD-SCOR input
3	RMC	I	Remote commander input
4	C-XRST	O	CD system reset output
5	C-XLAT	O	CD DSP (IC702) command latch output
6	C-DAT	O	CD DSP (IC702) command data output
7	C-CLK	O	Clock output for CD DSP (IC702) command
8	C-DOOR	I	Open/close detection input ("L": close, "H": open)
9	328/332	I	328/332 select input (Fixed at "H".)
10	C-SENC	I	CD-SENS input
11	C-SQCK	O	Clock output for CD SUBQ
12	C-SQSO	I	CD SUBQ input
13	T-BIAS	I	Tape REC BIAS input
14	—	—	Not used (Open)
15	T-REC	I	Tape REC input
16	T-SOL	O	Plunger control output
17	T-MODE	O	HEAD switching output
18	T-AMS	I	AMS sensitivity switching
19	T-MCON	O	Motor control output ("H": Motor ON)
20	P-CON	O	Power on/off control output
21	V-CLK	O	Volume clock output
22	V-DAT	O	Volume data output
23	V-CE	O	Electrical volume (IC302) chip enable output
24	R-ST	I	Stereo detection input
25	R-COUNT	I	Tuner PLL IC count input
26	R-DAT	O	Tuner PLL IC data output
27	R-CLK	O	Tuner PLL IC clock output
28	R-CE	O	Tuner PLL IC chip enable output
29	9K/10K	I	9K/10K select input (Not used.)
30	T-STAT	I	Tape detection input
31 – 34	KEY-0 – 3	I	Key return signal input
35	INIT	O	Initial setting output (East European model)
36	SIMUKE	I	Destination setting terminal
37	SFC	O	Shift clock ON/OFF out
38	RST	I	Reset input
39	EXTAL1	I	Clock oscillation input (4.19 MHz)
40	XTAL1	O	Clock oscillation output (4.19 MHz)
41	VSS	—	Ground (for A/D converter)
42	XTAL2	O	Clock oscillation output (Open)
43	EXTAL2	I	Clock oscillation output (Fixed at "L".)
44	AVREF	I	Reference voltage input (for A/D converter)
45	AVSS	—	Ground (for A/D converter)
46	VL	O	LCD bias resistor current control terminal (Cut off at standby)
47 – 49	VLC3 – 1	—	LCD bias power supply terminal
50 – 53	COM0 – 3	O	LCD common signal output terminal
54 – 77	SEG0 – 23	O	LCD segment signal output terminal
78 – 84	NC	—	Not used. (Open)
85 – 87	—	—	Not used. (Open)
88	BL-CONT	O	LCD Back light control output
89	VDD	—	Power supply (+5 V)

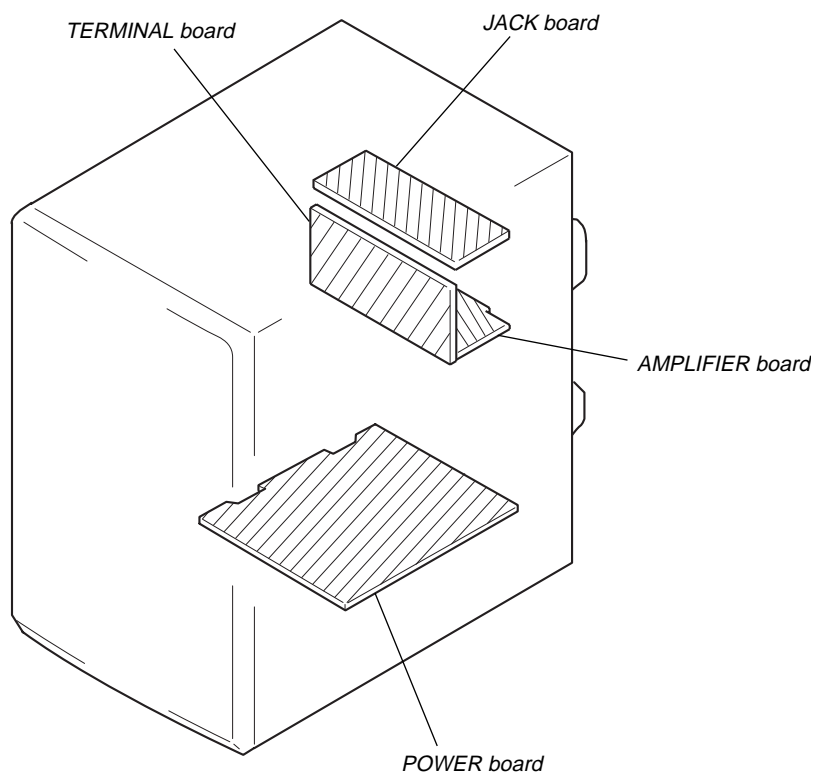
Pin No.	Pin Name	I/O	Pin Description
90	NC	—	Connected to the power supply.
91	VSS	—	Ground
92	TX	O	Crystal connection for clock oscillation. (32.768 kHz)
93	TEX	I	Crystal connection for clock oscillation. (32.768 kHz)
94	C-MUTE	O	Mute output for CD.
95	B-MUTE	O	Mute output for Tuner.
96	A-MUTE	O	Mute output for Audio.
97	ISS1	I	ISS1 switch input
98	ISS2	I	ISS2 switch input
99	T-END	I	Tape end detection input
100	NC	—	Not used. (Open)

6-5. CIRCUIT BOARDS LOCATION

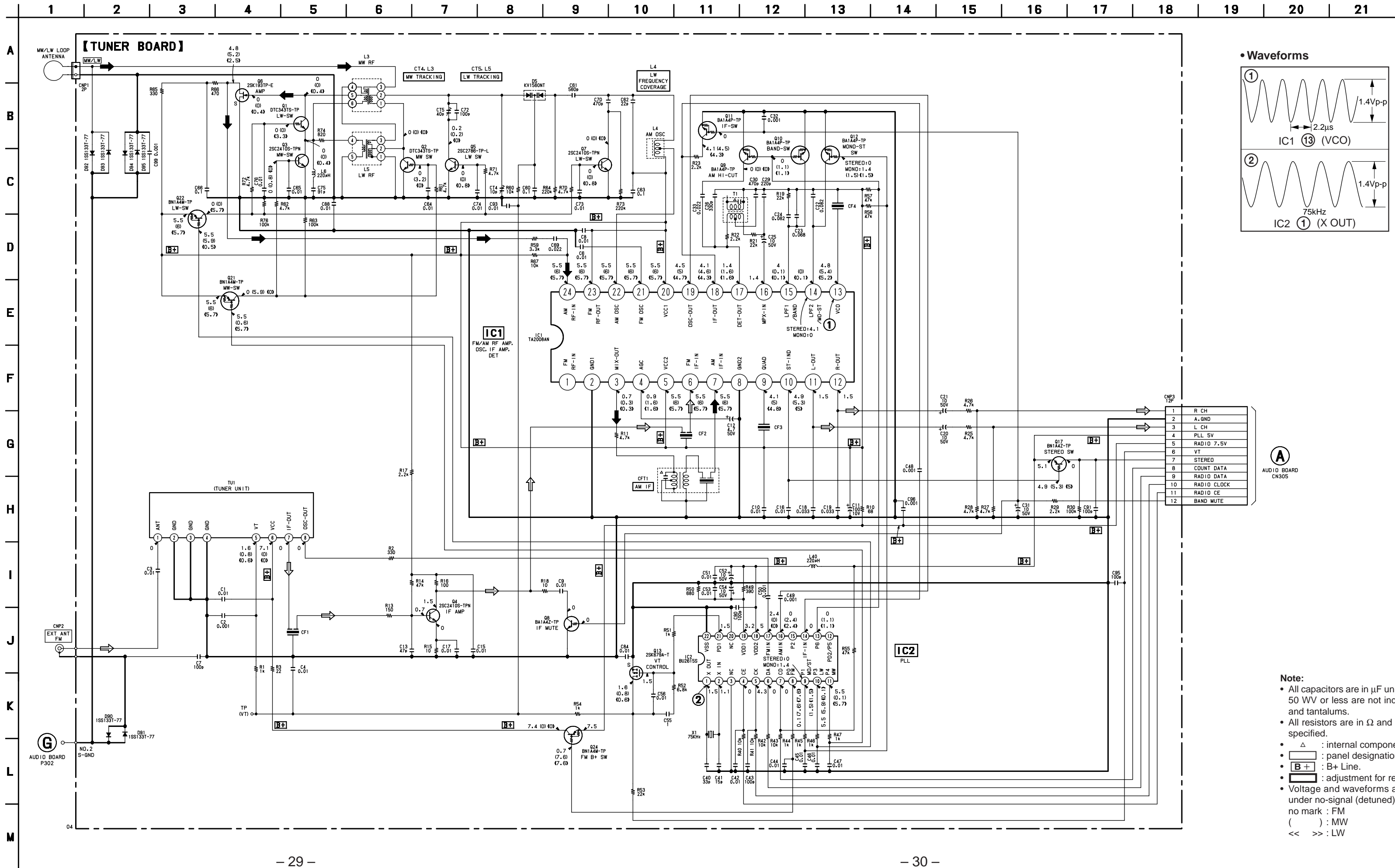
– Main Section –



– Speaker (L) Section –

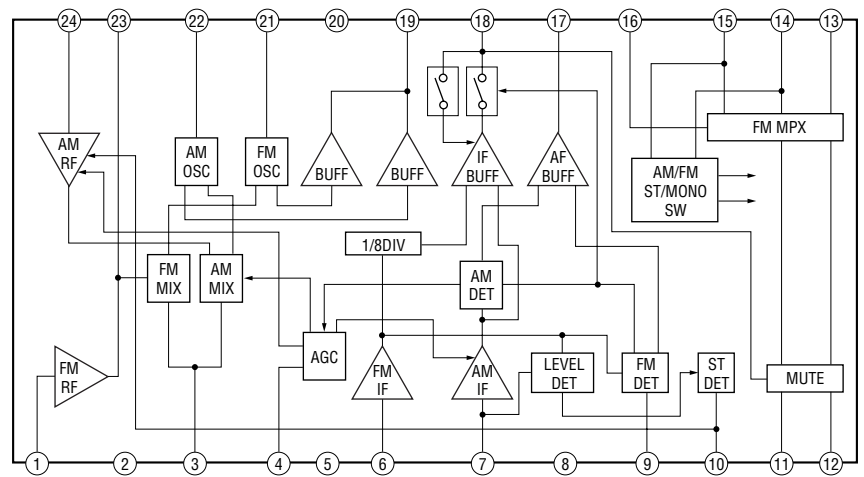


6-7. SCHEMATIC DIAGRAM — TUNER SECTION —

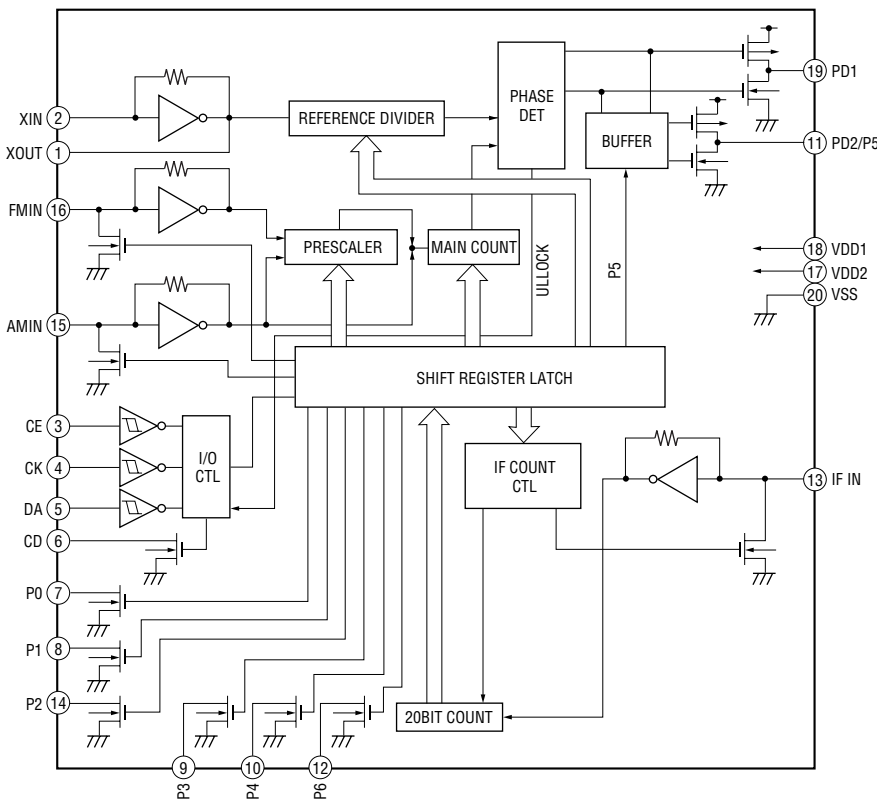


• IC Block Diagrams

IC1 TA2008AN



IC2 BU2615S







- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- : FM
- : MW/LW

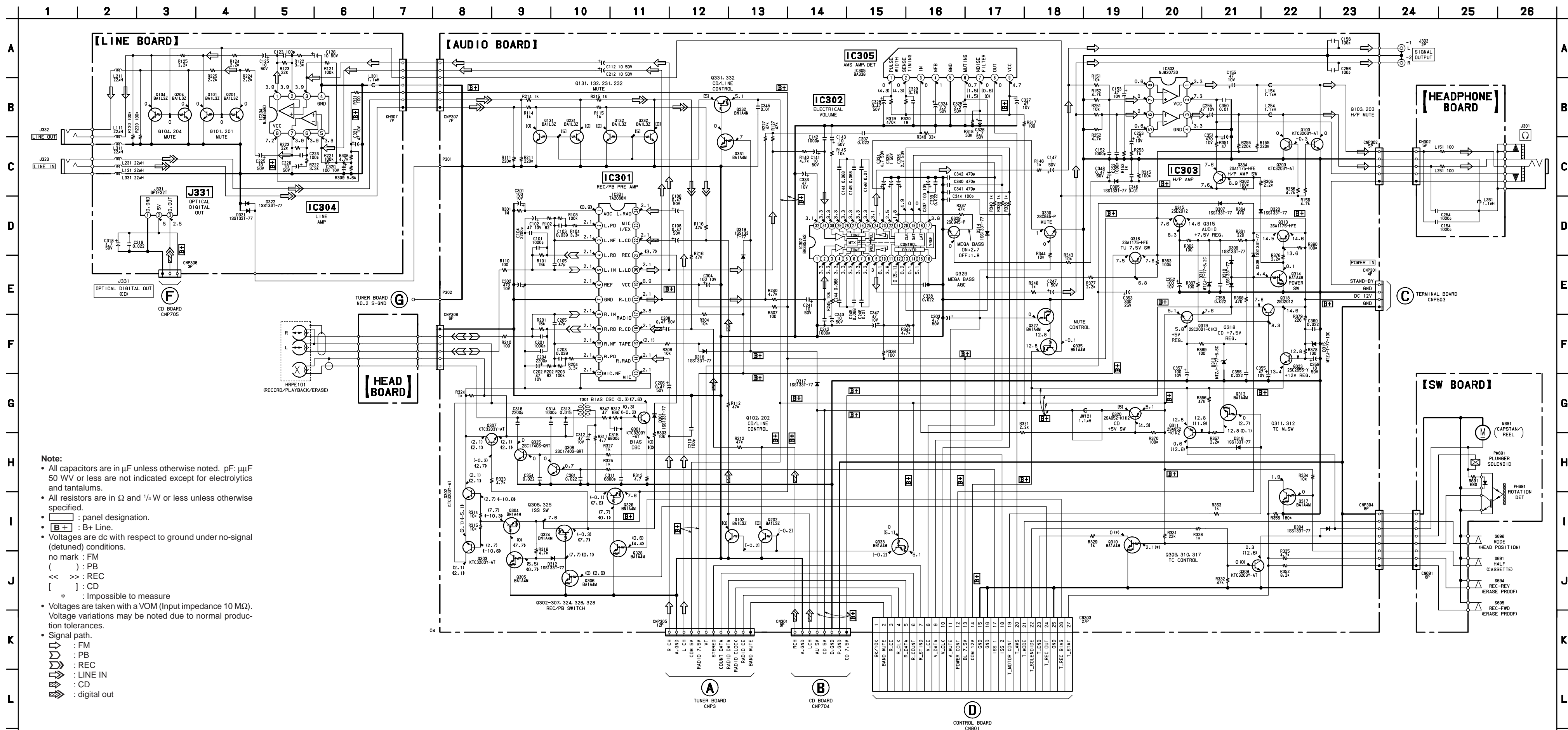


- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.

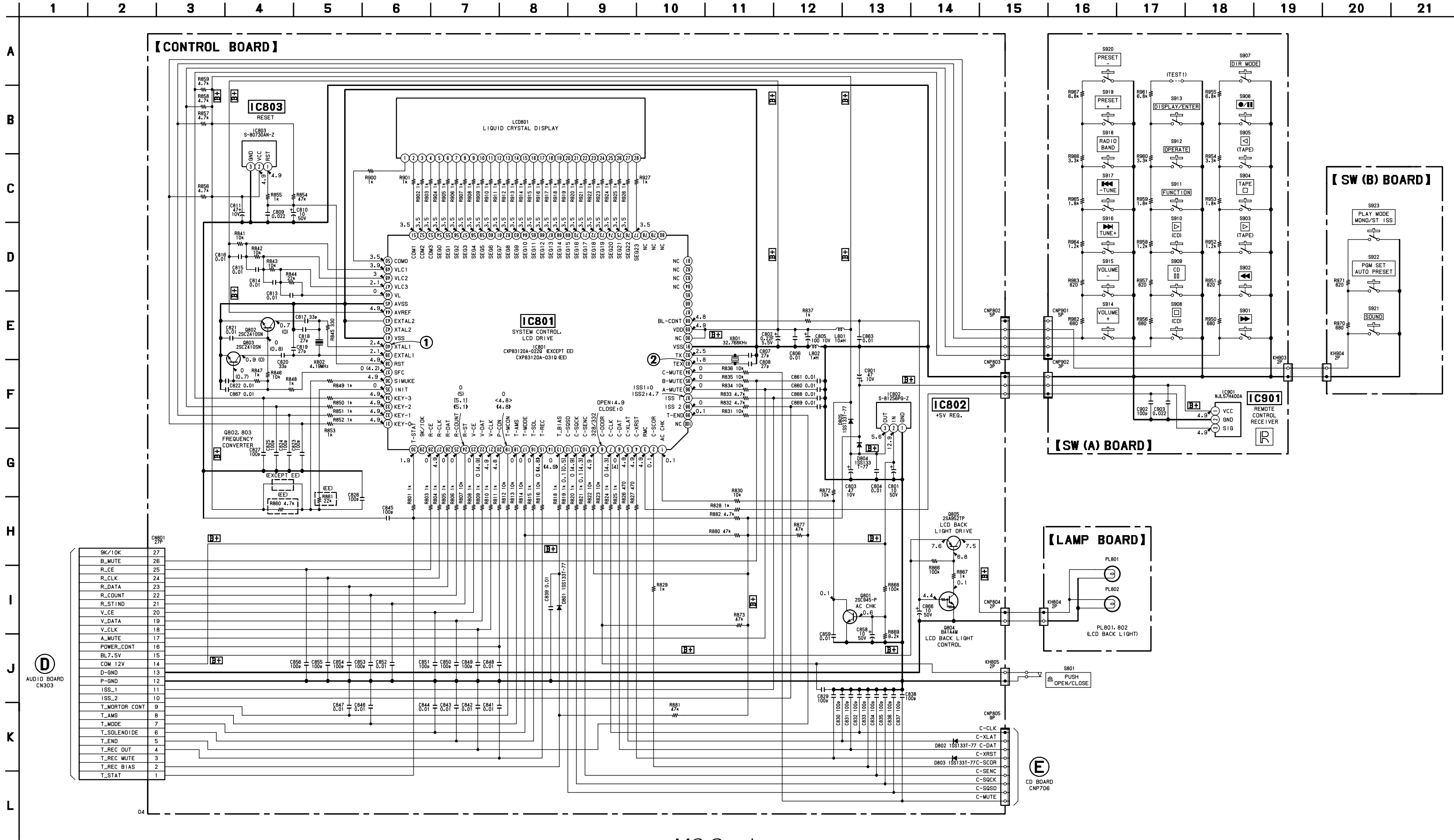
Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

-  : B+ Line.
-  : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : CD
- Voltages are taken with a VOM (Input impedance 10 MΩ).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : CD
 : digital out

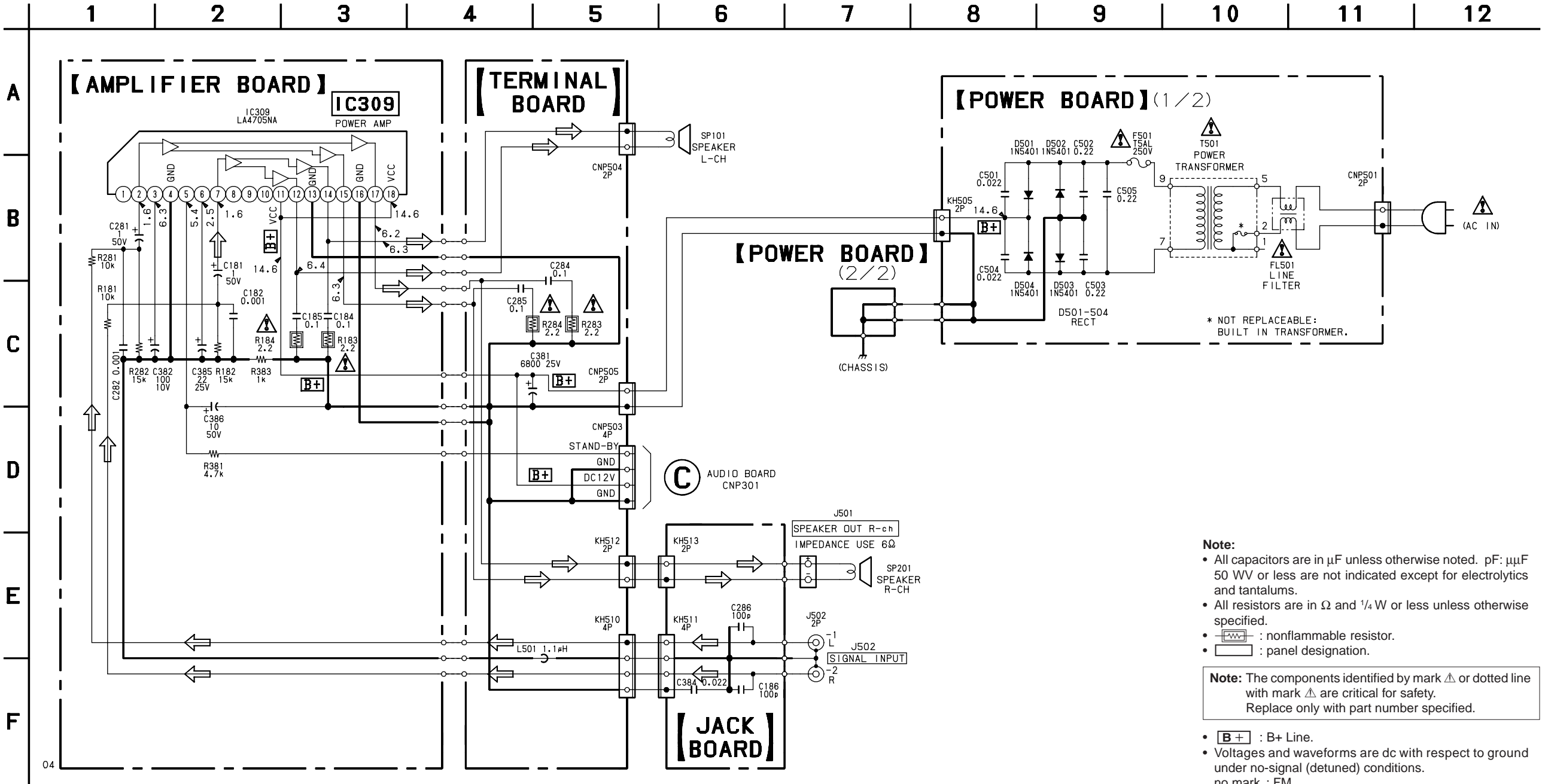
6-11. SCHEMATIC DIAGRAM — MAIN SECTION — • Refer to page 57 for IC Block Diagrams.



6-13. SCHEMATIC DIAGRAM — CONTROL SECTION —



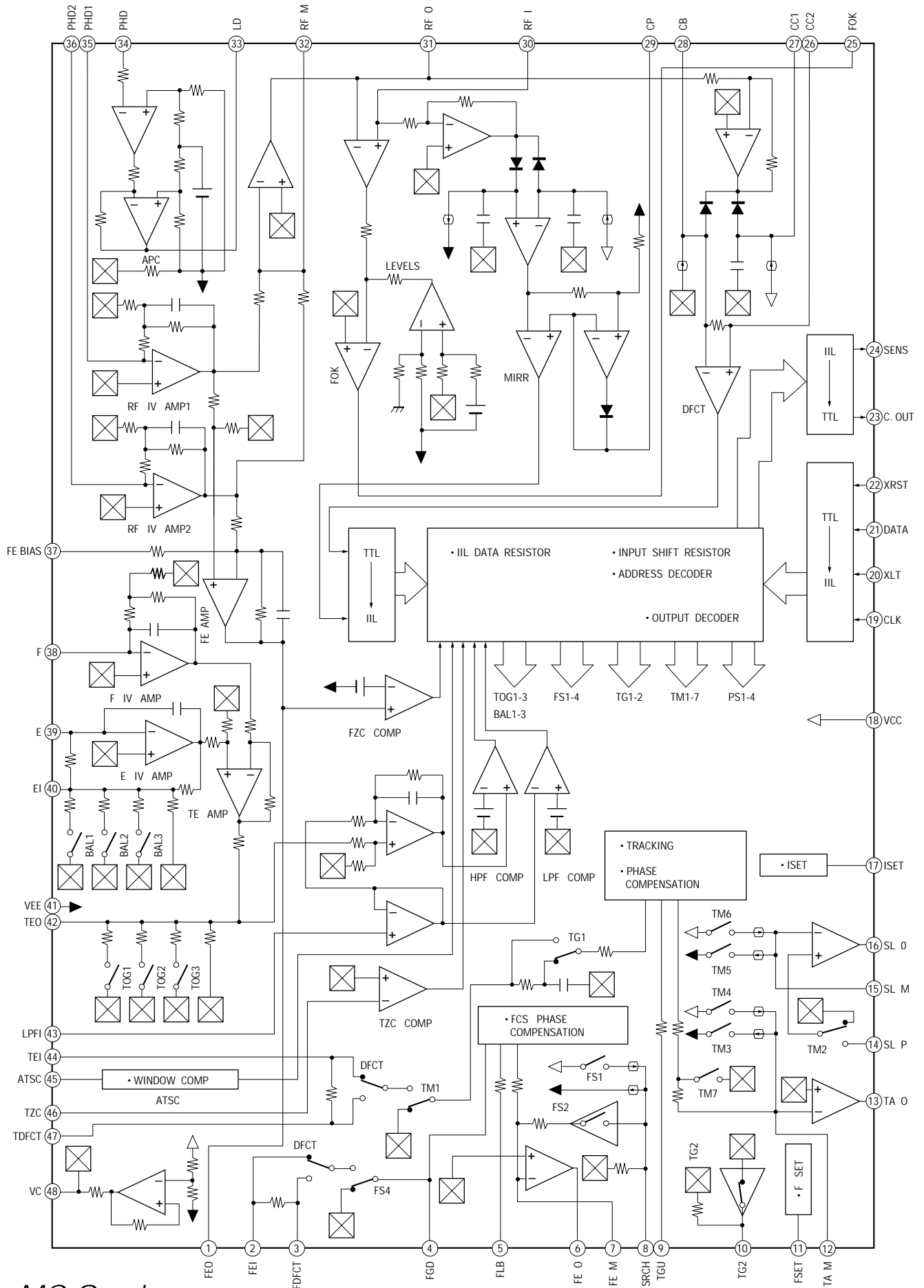
6-15. SCHEMATIC DIAGRAM — POWER AMPLIFIER SECTION —



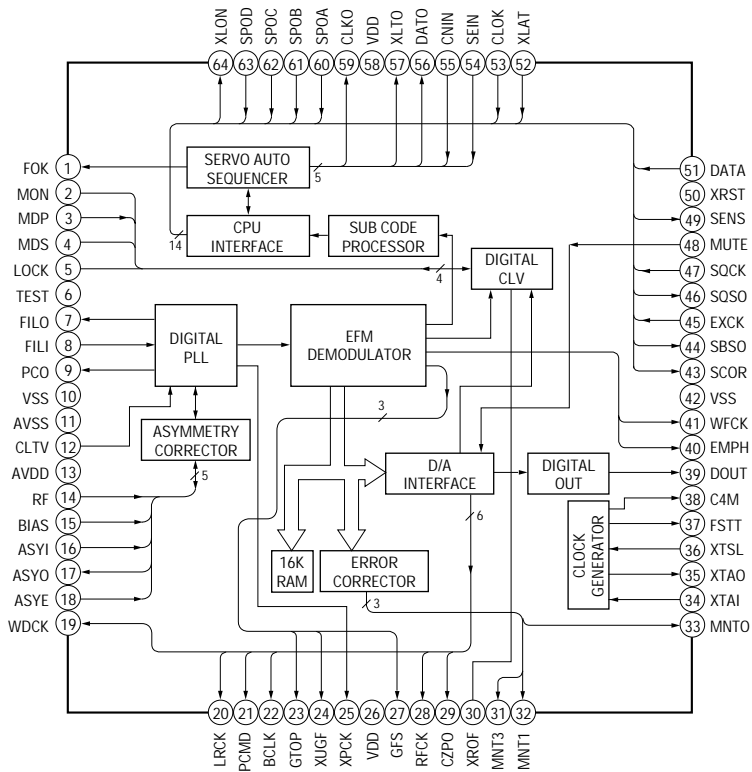
MC-Service

• IC Block Diagrams
– CD Section –

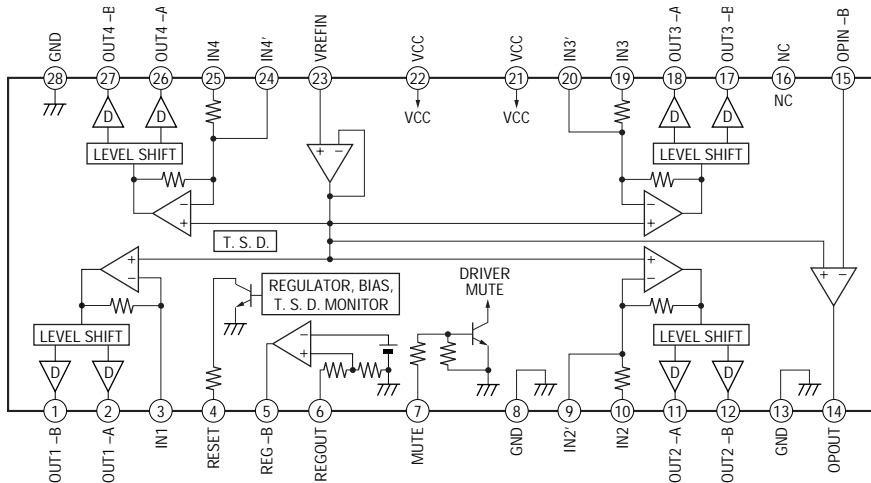
IC701 CXA1782BQ



IC702 CXD2507AQ

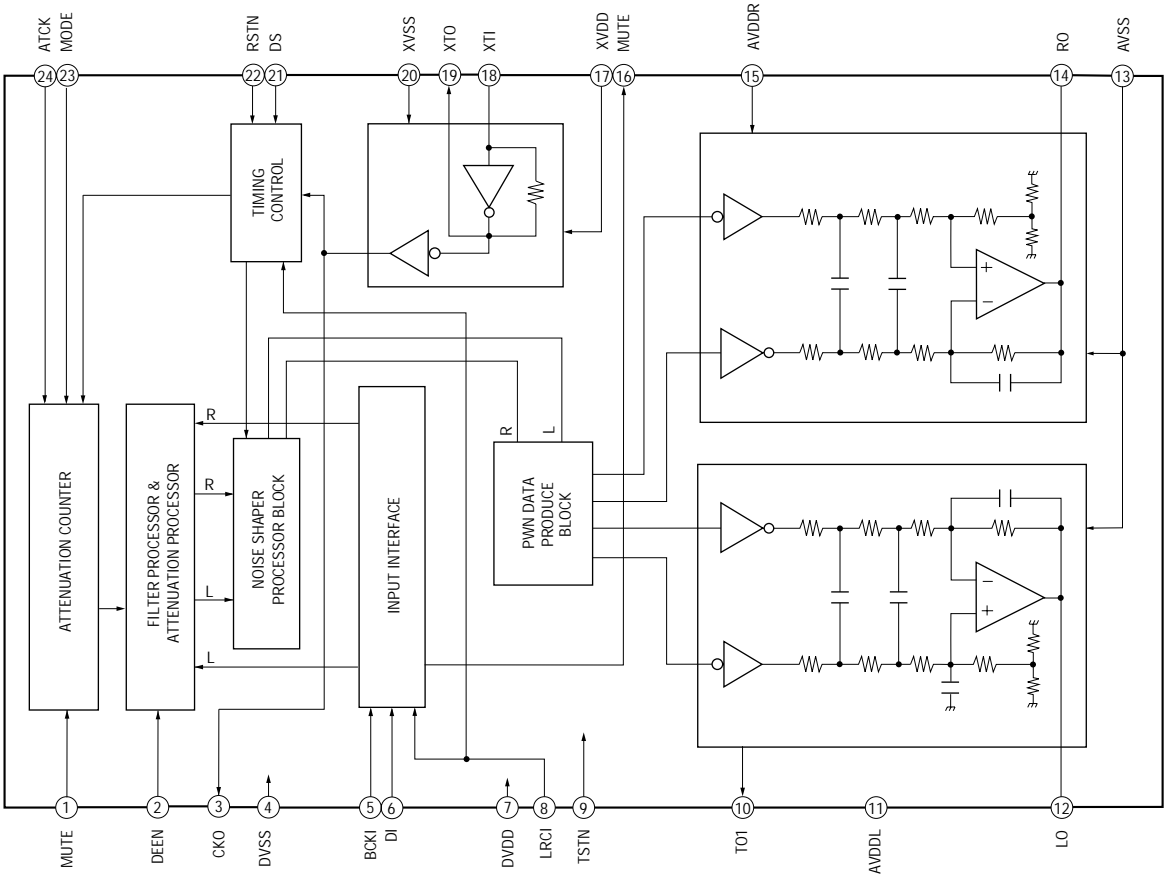


IC703 BA6898FP



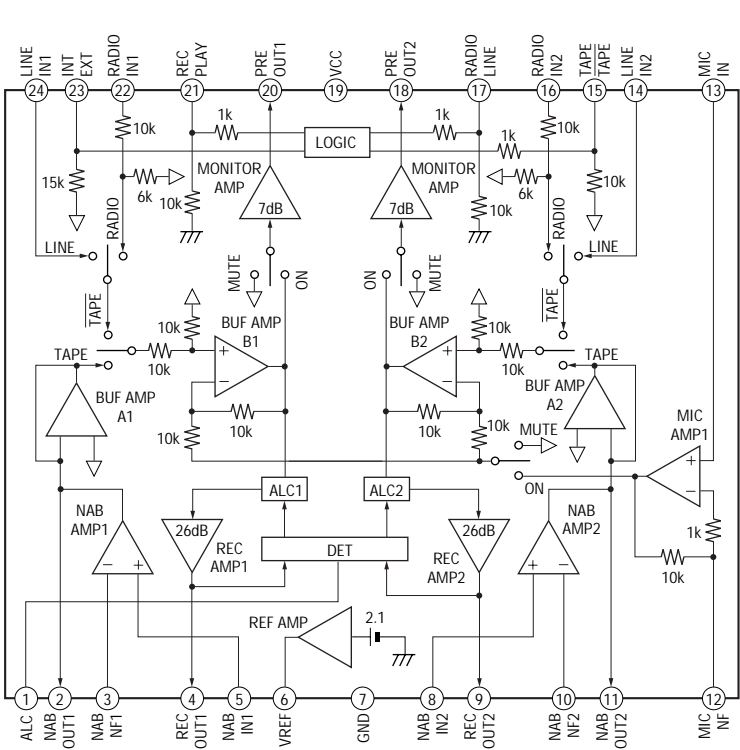
MC-Service

IC704 SM5877AM

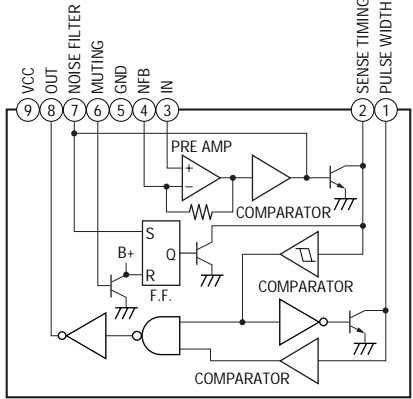


– Main Section –

IC301 TA2068N



IC305 BA338



SECTION 7 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
IT : Italian model
EE : East European model

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts

Example:

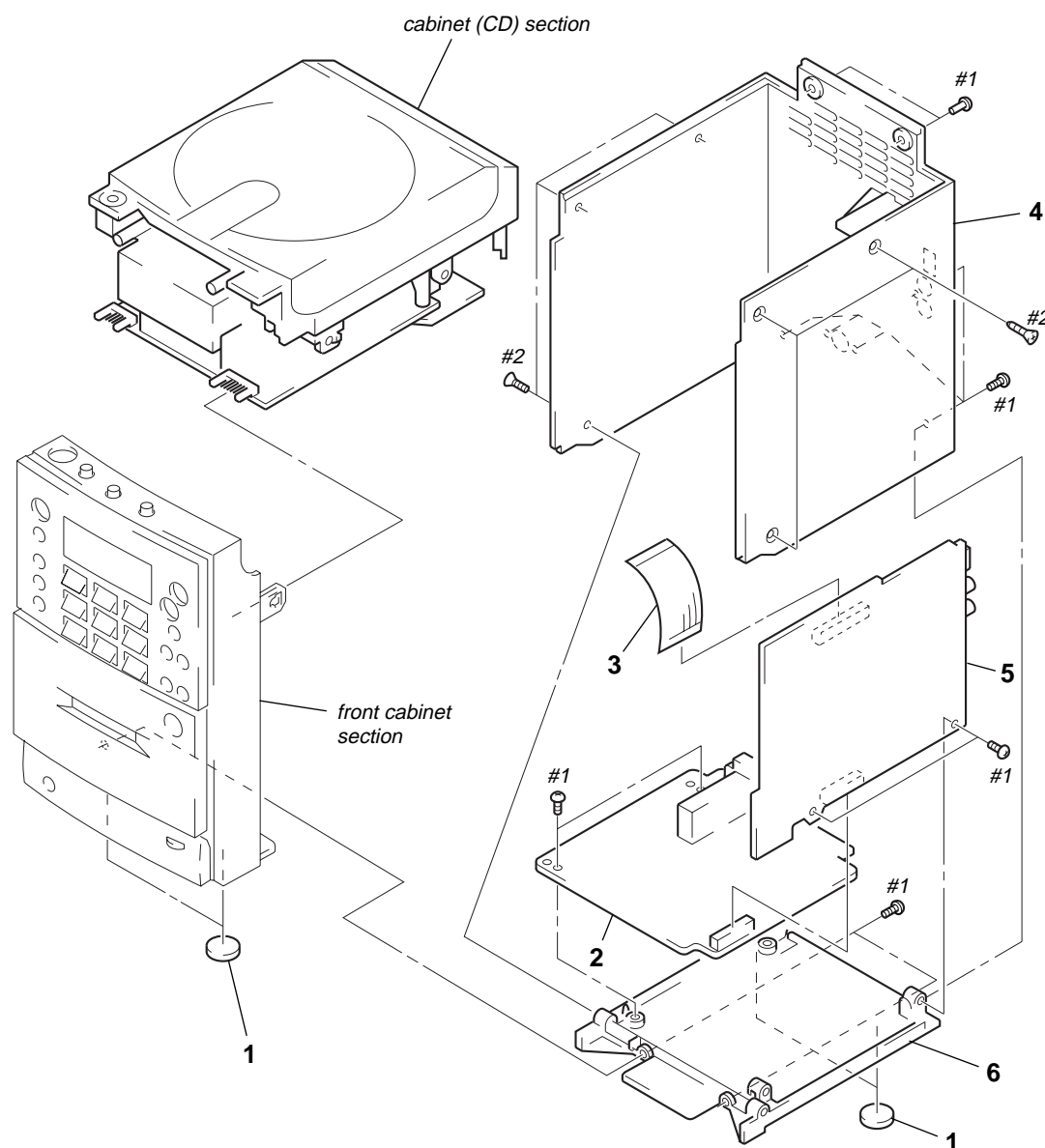
KNOB, BALANCE (WHITE) ... (RED)

Parts Color Cabinet's Color

- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

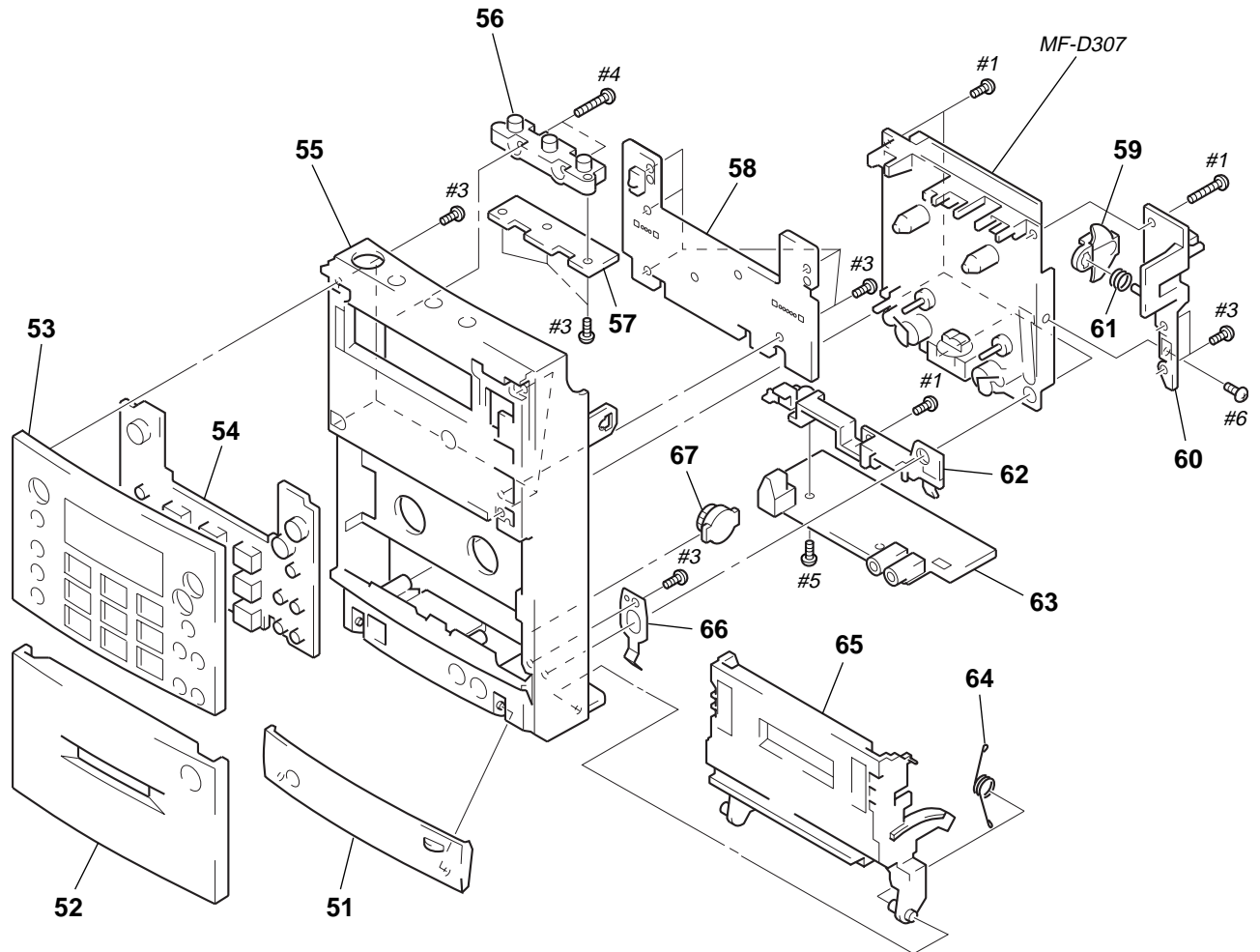
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

7-1. CASE SECTION



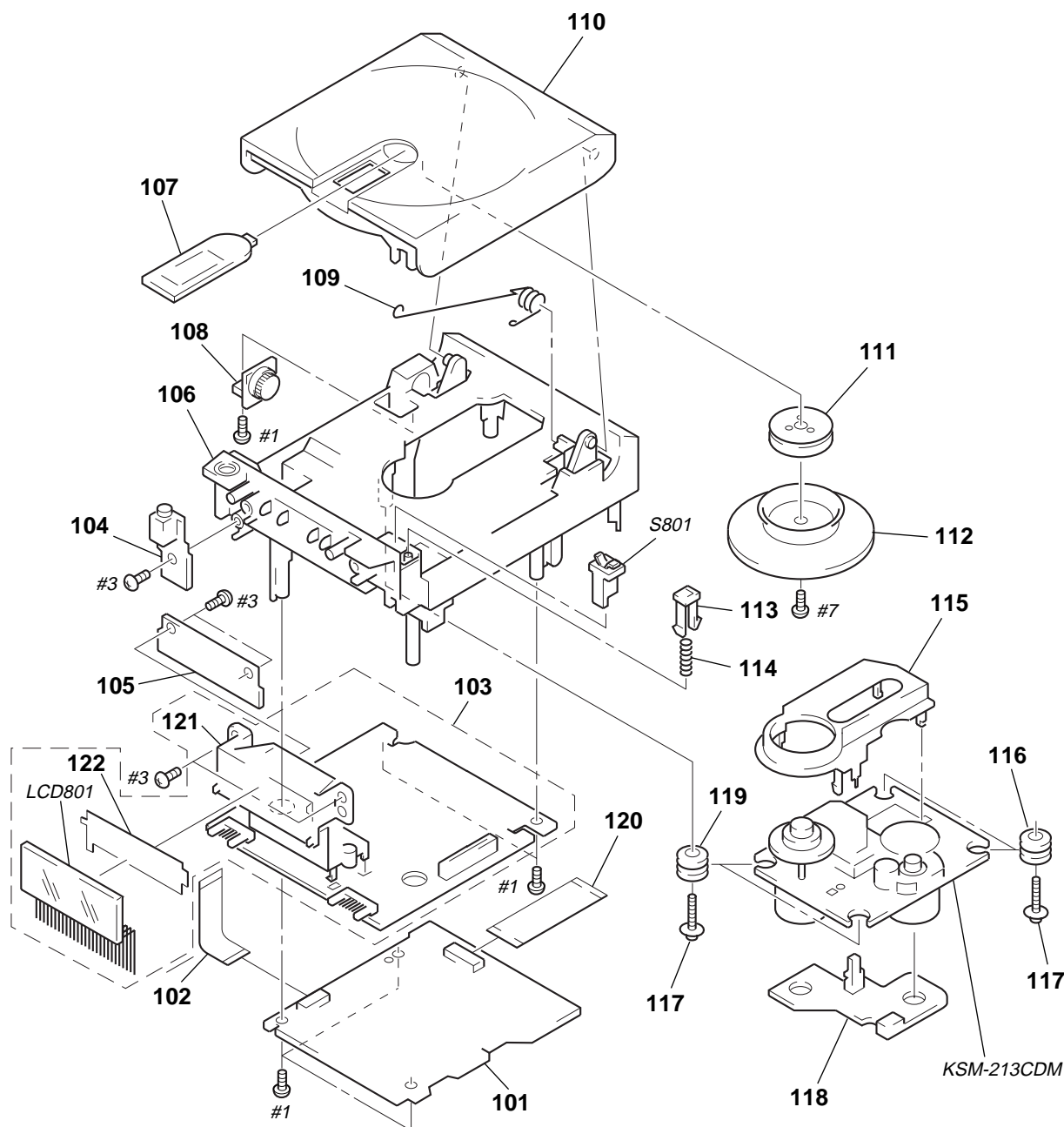
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-014-503-01	FOOT		3	1-782-296-11	WIRE, PARALLEL (FFC) (27 CORE)	
* 2	A-3321-478-A	TUNER BOARD, COMPLETE (EXCEPT IT,EE)		4	3-014-125-01	CABINET (REAR)	
* 2	A-3321-479-A	TUNER BOARD, COMPLETE (IT)		* 5	A-3321-480-A	AUDIO BOARD, COMPLETE	
* 2	A-3321-488-A	TUNER BOARD, COMPLETE (EE)		6	3-014-127-01	CASE (LOWER)	

7-2. CABINET (FRONT) SECTION



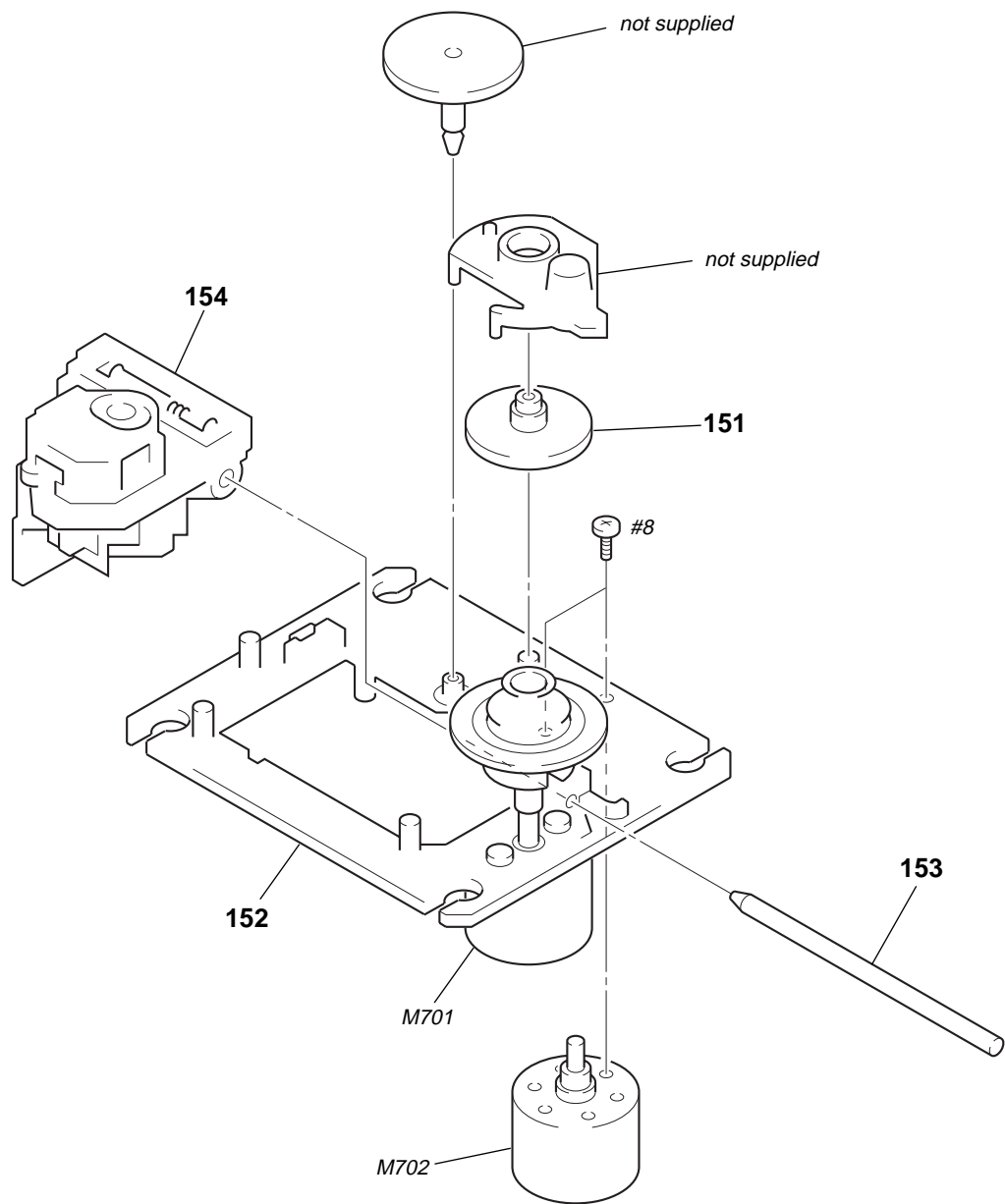
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3373-799-1	LID (TERMINAL) ASSY		60	3-014-098-01	RETAINER (CASSETTE), LOCK	
52	X-3376-075-2	LID ASSY, CASSETTE		61	3-013-735-01	SPRING, COMPRESSION	
53	X-3376-074-1	PANEL ASSY, FRONT		62	3-014-100-01	HOLDER (TERMINAL)	
54	3-014-091-01	BUTTON (MAIN)		* 63	A-3321-474-A	LINE BOARD, COMPLETE	
55	3-014-090-01	CABINET (FRONT)		64	3-014-102-01	SPRING (CASSETTE)	
56	3-014-092-01	BUTTON (UPPER)		65	3-014-096-01	HOLDER (CASSETTE)	
* 57	1-666-185-11	SW (B) BOARD		66	3-014-103-01	SPRING (TERMINAL LID)	
* 58	1-666-184-11	SW (A) BOARD		67	3-343-248-01	DAMPER (P), SMALL	
59	3-014-097-01	PLATE (CASSETTE), LOCK					

7-3. CABINET (CD) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	A-3321-485-A	CD BOARD, COMPLETE		113	3-014-131-01	LEVER	
102	1-782-294-11	WIRE, PARALLEL (FFC) (9 CORE)		* 114	3-014-132-01	SPRING, COMPRESSION	
* 103	A-3321-484-A	CONTROL BOARD, COMPLETE (EXCEPT EE)		115	3-910-116-01	COVER, CD	
* 103	A-3321-490-A	CONTROL BOARD, COMPLETE (EE)		116	3-910-095-11	RUBBER, VIBRATION PROOF	
* 104	1-666-187-11	HEADPHONE BOARD		117	3-916-006-01	SCREW (2.6X16)	
* 105	1-666-186-11	LAMP BOARD		118	1-639-678-12	CD MOTOR BOARD	
106	3-014-123-01	CABINET (CD)		119	3-910-095-01	RUBBER, VIBRATION PROOF	
107	3-014-129-01	WINDOW (CD)		120	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
108	3-351-377-11	DAMPER		* 121	3-014-121-01	HOLDER (LCD)	
109	3-014-128-01	SPRING (CD)		* 122	3-014-130-01	SHEET, DIFFUSION	
110	3-014-124-01	LID (CD)		LCD801	1-801-786-11	DISPLAY PANEL, LIQUID CRYSTAL	
111	1-452-732-11	MAGNET		S801	1-692-960-11	SWITCH, PUSH (1 KEY) (OPEN/CLOSE)	
112	3-910-112-01	PLATE, CHUCKING					

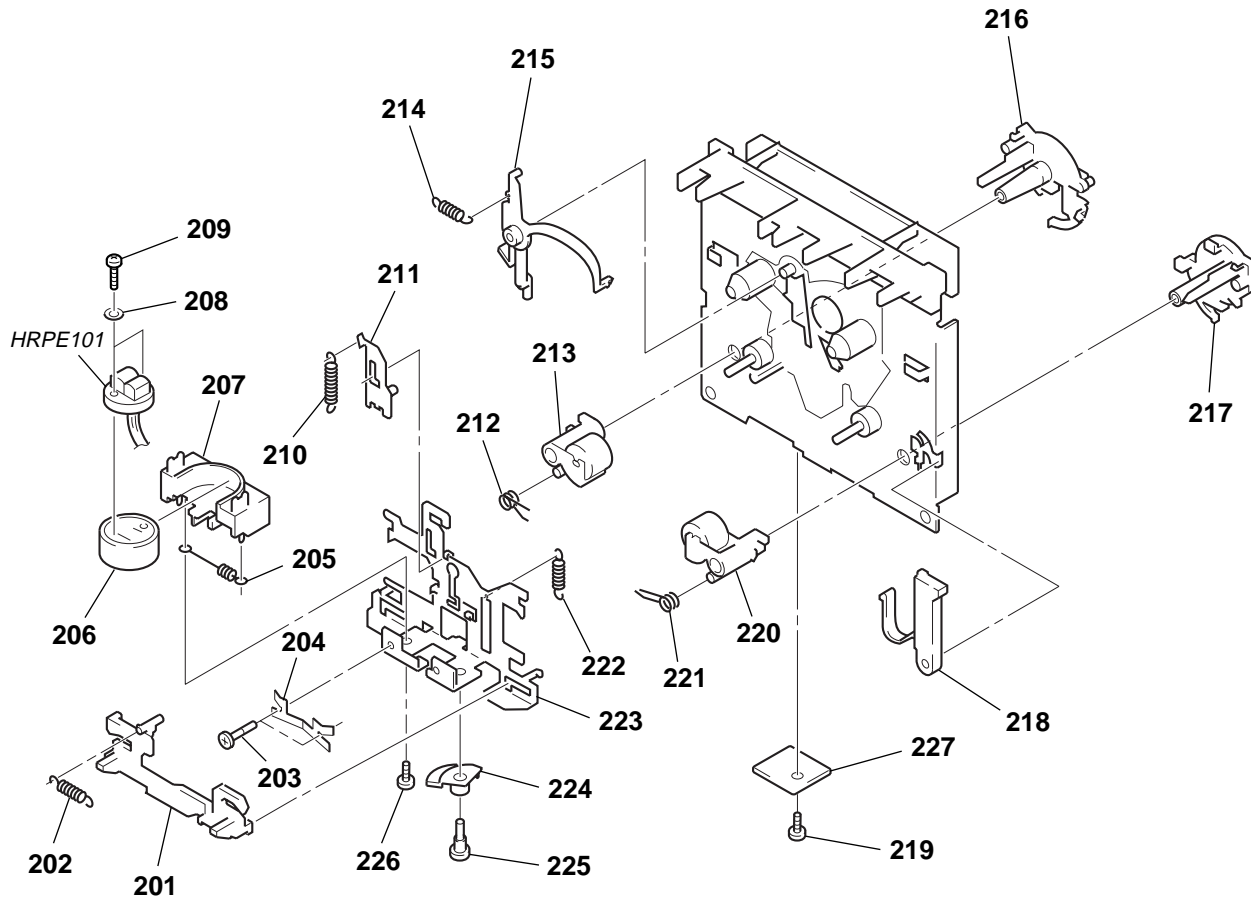
7-4. OPTICAL PICK-UP SECTION
(KSM-213CDM)



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

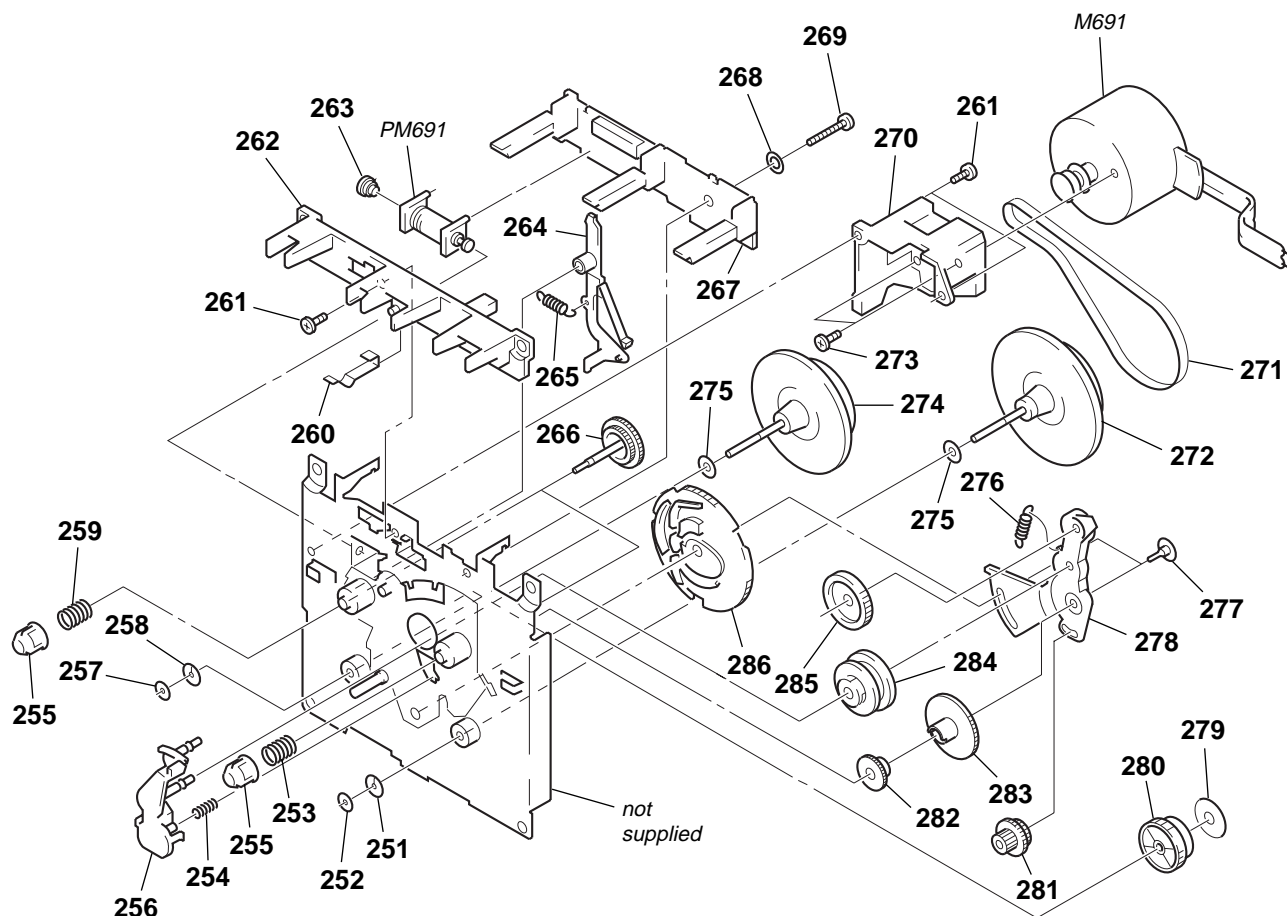
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	2-627-003-02	GEAR (B) (RP)		153	2-626-908-01	SHAFT, SLED	
152	X-2626-202-2	CHASSIS ASSY (MB), MOTOR (SPINDLE)		Δ 154	8-848-483-05	PICK-UP, OPTICAL KSS-213C/Q-RP	
		(INCLUDING M701)		M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	

**7-5. TAPE MECHANISM DECK SECTION-1
(MF-D307)**



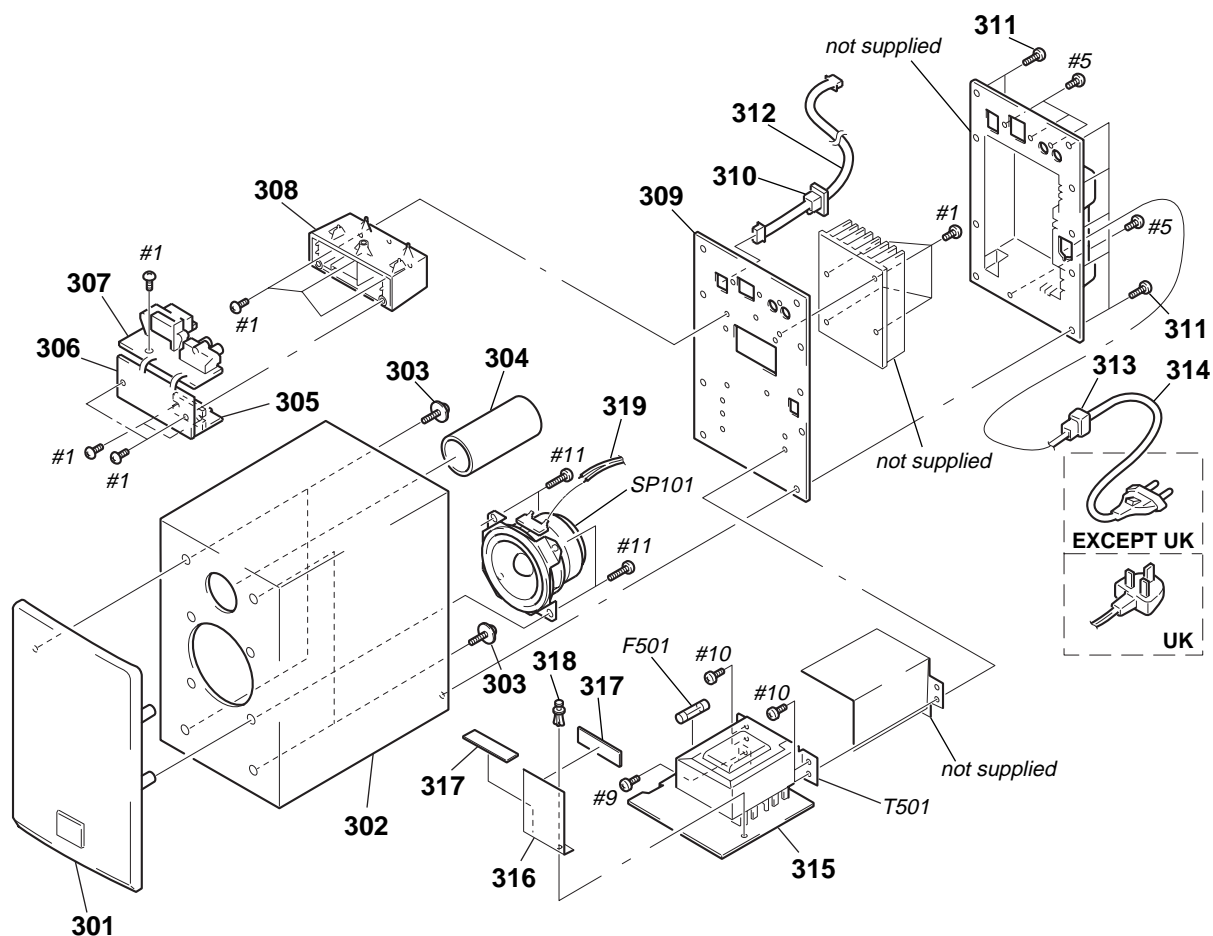
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-938-905-01	HEAD, LEVER		* 215	3-938-916-01	BRAKE, ARM	
202	3-938-940-01	SPRING (L)		* 216	3-938-914-01	FRAME (C)	
203	3-938-941-01	SCREW (A)		* 217	3-938-913-01	FRAME (B)	
204	3-938-906-01	AZIMUTH, SPRING		* 218	3-938-909-01	LOCK, EJECT	
205	3-017-432-01	SPRING (A)		219	3-938-944-01	SCREW (D)	
206	3-938-901-01	HEAD, HOLDER		220	3-017-591-01	ARM (PINCH R) ASSY	
* 207	3-938-904-01	HEAD, FRAME		221	3-938-937-01	SPRING (I)	
208	3-938-902-01	WASHER		222	3-938-938-01	SPRING (J)	
209	3-938-903-01	SCREW		* 223	3-938-911-01	HEAD (B), CHASSIS	
210	3-938-935-01	SPRING (G)		224	3-938-907-01	HEAD, GEAR ARM	
* 211	X-3372-610-1	ASSIST ASSY, LEVER		225	3-938-943-01	SCREW (C)	
212	3-938-933-01	SPRING (E)		226	3-938-942-01	SCREW (B)	
213	3-017-592-01	ARM (PINCH L) ASSY		* 227	1-662-743-11	HEAD BOARD	
214	3-938-934-01	SPRING (F)		HRPE101	1-500-480-11	HEAD, MAGNETIC (REC/PB/ERASE)	

7-6. TAPE MECHANISM DECK SECTION-2 (MF-D307)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-938-949-01	WASHER (B)		270	3-017-431-01	BRACKET (MM)	
252	3-938-951-01	WASHER (D)		271	3-017-430-01	BELT	
253	3-938-936-01	SPRING (H)		272	3-017-596-01	FLYWHEEL (R) ASSY	
254	3-938-930-01	SPRING (B)		273	3-017-434-01	SCREW (H)	
255	3-938-910-01	REEL, CAP		274	3-017-595-01	FLYWHEEL (L) ASSY	
* 256	3-938-912-01	ARM (UD)		275	3-938-950-01	WASHER (C)	
257	3-938-952-01	WASHER (E)		276	3-017-433-01	SPRING (K)	
258	3-938-948-01	WASHER (A)		277	3-938-946-01	SCREW (F)	
259	3-938-932-01	SPRING (D)		* 278	3-938-919-01	ARM (FR)	
260	3-938-908-01	CASSETTE, SPRING		279	3-017-435-01	REFLECTOR	
261	3-938-945-01	SCREW (E)		280	3-017-429-01	GEAR (REF)	
262	3-017-428-01	FRAME (D)		281	3-938-917-01	GEAR (A)	
263	3-938-920-01	PLUNGER, K		282	3-938-924-01	GEAR (P)	
* 264	3-938-918-01	TRIGGER, ARM		283	3-938-923-01	GEAR (FR)	
265	3-938-931-01	SPRING (C)		284	X-3372-613-1	CLUTCH ASSY	
266	3-938-921-01	GEAR (REEL)		285	3-938-925-01	GEAR (IDL)	
* 267	1-662-742-11	SW BOARD		286	3-938-922-01	GEAR (CAM)	
268	3-938-954-01	WASHER (G)		M691	3-016-425-01	MOTOR ASSY (CAPSTAN/REEL)	
269	3-938-947-01	SCREW (G)		PM691	1-454-806-11	SOLENOID, PLUNGER	

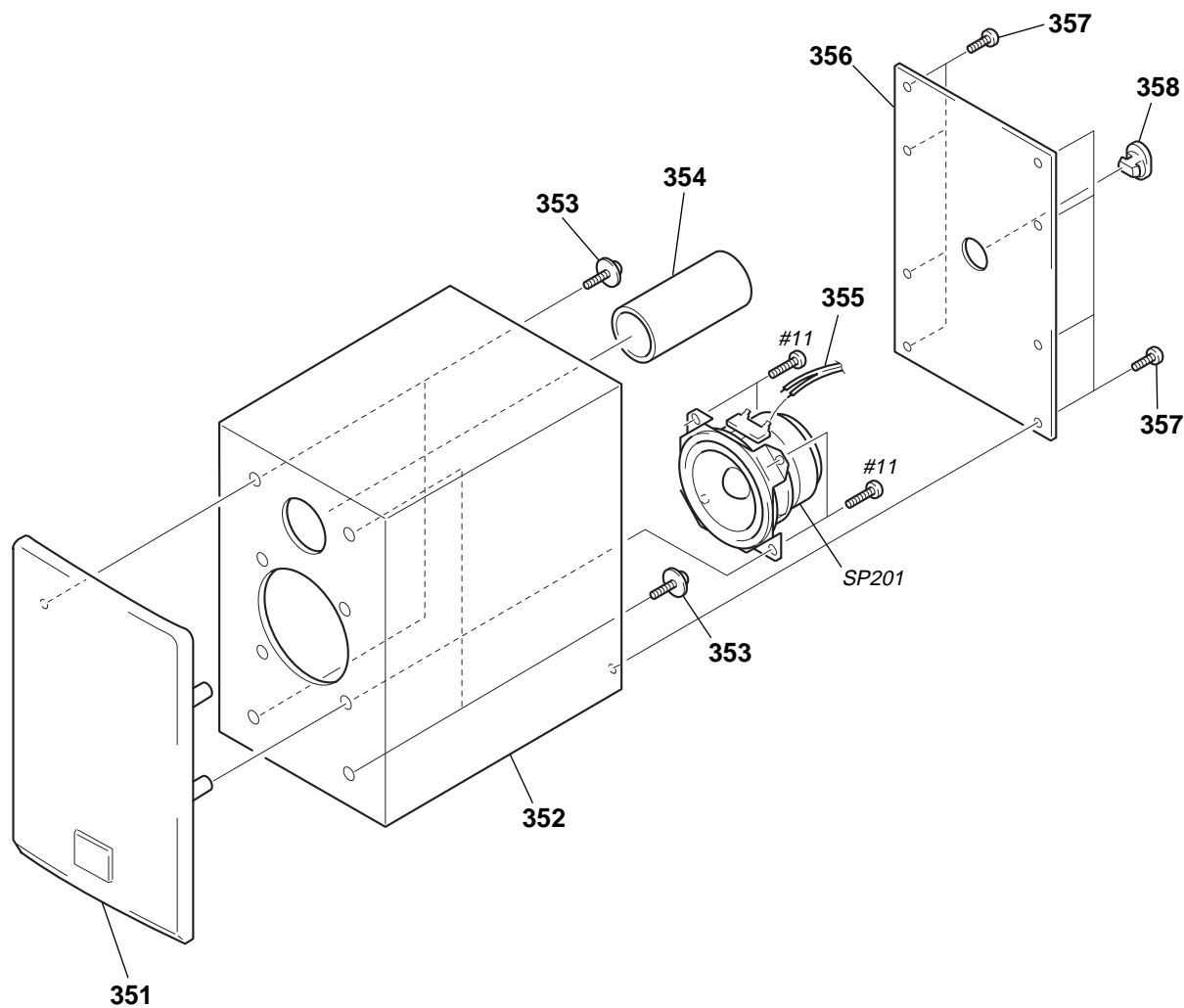
7-7. SPEAKER (L) SECTION



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	X-3376-076-1	SPEAKER (FRONT) SUB ASSY		313	3-703-244-11	BUSHING (2104), CORD	
302	3-028-031-11	BOX, SPEAKER		Δ 314	1-575-651-11	CORD, POWER (EXCEPT UK)	
303	3-365-853-01	SCREW (+BTPWH) (3X12)		Δ 314	1-751-520-11	CORD, POWER (UK)	
304	3-028-028-01	DUCT (SPEAKER)		* 315	1-671-064-11	POWER BOARD	
* 305	1-671-065-11	AMPLIFIER BOARD		* 316	3-017-037-01	INSULATOR	
* 306	1-671-066-11	TERMINAL BOARD		317	3-568-749-00	CUSHION, ECM	
* 307	1-671-068-11	JACK BOARD		318	4-812-134-11	RIVET (DIA. 3.5), NYLON	
308	3-028-034-01	BRACKET (AMP)		319	1-782-509-11	CORD, SPEAKER	
309	3-028-029-01	CHASSIS (L), REAR		Δ F501	1-532-505-31	FUSE, TIME-LAG (T5A/250V)	
* 310	3-014-106-01	BUSHING (4P), CORD		SP101	1-505-607-11	SPEAKER (8cm)	
311	4-874-614-11	SCREW (4) (3.5X14), TAPPING		Δ T501	1-431-353-11	TRANSFORMER, POWER	
312	X-3374-496-1	CORD ASSY					

7-8. SPEAKER (R) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	X-3376-076-1	SPEAKER (FRONT) SUB ASSY		356	3-028-030-11	PANEL (R), REAR	
352	3-028-031-11	BOX, SPEAKER		357	4-874-614-11	SCREW (4) (3.5X14), TAPPING	
353	3-365-853-01	SCREW (+BTPWH) (3X12)		* 358	3-014-109-01	STOPPER, CORD	
354	3-028-028-01	DUCT (SPEAKER)		SP201	1-505-607-11	SPEAKER (8cm)	
355	1-782-509-11	CORD, SPEAKER					

SECTION 8 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA.: μ A.. uPA.: μ PA..
uPB.: μ PB.. uPC.: μ PC.. uPD.: μ PD..
• CAPACITORS
uF: μ F
• COILS
uH: μ H

The components identified by mark Δ or dotted line with mark. Δ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

- Abbreviation
EE : East European model
IT : Italian model
SP : Singapore model
CET : East European, CIS model

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
*	1-671-065-11	AMPLIFIER BOARD *****					C144	1-162-849-11	CERAMIC	0.068uF	10%	16V	
		< CAPACITOR >					C145	1-162-849-11	CERAMIC	0.068uF	10%	16V	
C181	1-126-960-11	ELECT	1uF	20%	50V		C146	1-162-839-11	CERAMIC	0.01uF	10%	16V	
C182	1-162-294-31	CERAMIC	0.001uF	10%	50V		C147	1-126-960-11	ELECT	1uF	20%	50V	
C184	1-130-495-00	MYLAR	0.1uF	5%	50V		C152	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C185	1-130-495-00	MYLAR	0.1uF	5%	50V								
C281	1-126-960-11	ELECT	1uF	20%	50V		C153	1-104-664-11	ELECT	47uF	20%	10V	
							C155	1-107-909-11	ELECT	47uF	20%	10V	
C282	1-162-294-31	CERAMIC	0.001uF	10%	50V		C156	1-162-282-31	CERAMIC	100PF	10%	50V	
C382	1-104-665-11	ELECT	100uF	20%	10V		C201	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C385	1-128-551-11	ELECT	22uF	20%	25V		C202	1-104-664-11	ELECT	47uF	20%	10V	
C386	1-126-964-11	ELECT	10uF	20%	50V								
		< IC >					C203	1-137-442-11	FILM	0.039uF	5%	50V	
IC309	8-759-333-16	IC LA4705NA					C204	1-162-302-11	CERAMIC	0.0022uF	20%	16V	
		< RESISTOR >					C205	1-162-215-31	CERAMIC	47PF	5%	50V	
R181	1-249-429-11	CARBON	10K	5%	1/4W		C206	1-126-959-11	ELECT	0.47uF	20%	50V	
R182	1-249-431-11	CARBON	15K	5%	1/4W		C208	1-126-959-11	ELECT	0.47uF	20%	50V	
Δ R183	1-249-385-11	CARBON	2.2	5%	1/6W F								
Δ R184	1-249-385-11	CARBON	2.2	5%	1/6W F		C210	1-162-282-31	CERAMIC	100PF	10%	50V	
R281	1-249-429-11	CARBON	10K	5%	1/4W		C212	1-126-964-11	ELECT	10uF	20%	50V	
							C241	1-126-964-11	ELECT	10uF	20%	50V	
R282	1-249-431-11	CARBON	15K	5%	1/4W		C242	1-162-294-31	CERAMIC	0.001uF	10%	50V	
R381	1-249-425-11	CARBON	4.7K	5%	1/4W		C243	1-126-964-11	ELECT	10uF	20%	50V	
R383	1-249-417-11	CARBON	1K	5%	1/4W								
*****							C244	1-162-849-11	CERAMIC	0.068uF	10%	16V	
*	A-3321-480-A	AUDIO BOARD, COMPLETE *****					C245	1-162-849-11	CERAMIC	0.068uF	10%	16V	
	7-685-871-01	SCREW +BVTT 3X6 (S)					C246	1-162-839-11	CERAMIC	0.01uF	10%	16V	
		< CAPACITOR >					C247	1-126-960-11	ELECT	1uF	20%	50V	
C101	1-162-294-31	CERAMIC	0.001uF	10%	50V		C252	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C102	1-104-664-11	ELECT	47uF	20%	10V								
C103	1-137-442-11	FILM	0.039uF	5%	50V		C253	1-104-664-11	ELECT	47uF	20%	10V	
C104	1-162-302-11	CERAMIC	0.0022uF	20%	16V		C255	1-107-909-11	ELECT	47uF	20%	10V	
C105	1-162-215-31	CERAMIC	47PF	5%	50V		C256	1-162-282-31	CERAMIC	100PF	10%	50V	
							C301	1-104-665-11	ELECT	100uF	20%	10V	
C106	1-126-959-11	ELECT	0.47uF	20%	50V		C302	1-126-925-11	ELECT	470uF	20%	10V	
C108	1-126-959-11	ELECT	0.47uF	20%	50V								
C112	1-126-964-11	ELECT	10uF	20%	50V		C303	1-126-963-11	ELECT	4.7uF	20%	50V	
C141	1-126-964-11	ELECT	10uF	20%	50V		C304	1-104-665-11	ELECT	100uF	20%	10V	
C142	1-162-294-31	CERAMIC	0.001uF	10%	50V		C307	1-161-494-00	CERAMIC	0.022uF		25V	
							C311	1-162-305-11	CERAMIC	0.0068uF	30%	16V	
C143	1-126-964-11	ELECT	10uF	20%	50V		C312	1-104-664-11	ELECT	47uF	20%	10V	
							C313	1-137-350-11	MYLAR	0.015uF	10%	100V	
							C314	1-162-294-31	CERAMIC	0.001uF	10%	50V	
							C315	1-162-305-11	CERAMIC	0.0068uF	30%	16V	
							C316	1-162-302-11	CERAMIC	0.0022uF	20%	16V	
							C324	1-126-961-11	ELECT	2.2uF	20%	50V	
							C325	1-126-961-11	ELECT	2.2uF	20%	50V	
							C326	1-126-963-11	ELECT	4.7uF	20%	50V	
							C327	1-104-664-11	ELECT	47uF	20%	10V	
							C328	1-126-959-11	ELECT	0.47uF	20%	50V	
							C329	1-137-189-11	FILM	0.18uF	5%	50V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark
C333	1-104-664-11	ELECT	47uF	20%	10V	D317	8-719-991-33	DIODE 1SS133T-77	
C334	1-126-963-11	ELECT	4.7uF	20%	50V	D318	8-719-991-33	DIODE 1SS133T-77	
C335	1-126-960-11	ELECT	1uF	20%	50V	D319	8-719-991-33	DIODE 1SS133T-77	
C336	1-126-961-11	ELECT	2.2uF	20%	50V	D320	8-719-991-33	DIODE 1SS133T-77	
C337	1-104-665-11	ELECT	100uF	20%	10V			< IC >	
C338	1-161-494-00	CERAMIC	0.022uF		25V	IC301	8-759-264-71	IC TA2068N	
C339	1-161-494-00	CERAMIC	0.022uF		25V	IC302	8-759-432-41	IC BH3854AS	
C340	1-162-290-31	CERAMIC	470PF	10%	50V	IC303	8-759-701-54	IC NJM2073D	
C341	1-162-290-31	CERAMIC	470PF	10%	50V	IC305	8-759-905-47	IC BA338	
C342	1-162-290-31	CERAMIC	470PF	10%	50V			< JACK >	
C344	1-162-282-31	CERAMIC	100PF	10%	50V				
C345	1-162-306-11	CERAMIC	0.01uF	20%	16V	J302	1-770-612-12	JACK, PIN 2P (SIGNAL OUTPUT)	
C346	1-162-306-11	CERAMIC	0.01uF	20%	16V			< FERRITE BEAD >	
C347	1-104-664-11	ELECT	47uF	20%	10V				
C348	1-126-959-11	ELECT	0.47uF	20%	50V	JW121	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH	
C350	1-162-306-11	CERAMIC	0.01uF	20%	16V	L154	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH	
C351	1-104-652-11	ELECT	470uF	20%	10V	L254	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH	
C352	1-104-665-11	ELECT	100uF	20%	10V			< CONNECTOR >	
C353	1-126-940-11	ELECT	330uF	20%	25V	* P301	1-564-187-00	PIN, CONNECTOR	
C354	1-161-494-00	CERAMIC	0.022uF		25V	* P302	1-564-187-00	PIN, CONNECTOR	
C355	1-104-664-11	ELECT	47uF	20%	10V			< TRANSISTOR >	
C356	1-161-494-00	CERAMIC	0.022uF		25V				
C357	1-104-665-11	ELECT	100uF	20%	10V	Q102	8-729-900-74	TRANSISTOR DTC143TS	
C358	1-161-494-00	CERAMIC	0.022uF		25V	Q103	8-729-036-86	TRANSISTOR KTC3203Y-AT	
C359	1-126-964-11	ELECT	10uF	20%	50V	Q131	8-729-900-74	TRANSISTOR DTC143TS	
C360	1-161-494-00	CERAMIC	0.022uF		25V	Q132	8-729-900-74	TRANSISTOR DTC143TS	
C361	1-161-494-00	CERAMIC	0.022uF		25V	Q202	8-729-900-74	TRANSISTOR DTC143TS	
		< CONNECTOR >							
* CN301	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P				Q203	8-729-036-86	TRANSISTOR KTC3203Y-AT	
CN303	1-569-312-11	SOCKET, CONNECTOR (LARGE TYPE) 27P				Q231	8-729-900-74	TRANSISTOR DTC143TS	
* CNP301	1-779-536-11	PLUG, CONNECTOR 4P (POWER IN)				Q232	8-729-900-74	TRANSISTOR DTC143TS	
CNP302	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P				Q301	8-729-036-86	TRANSISTOR KTC3203Y-AT	
* CNP304	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P				Q302	8-729-036-86	TRANSISTOR KTC3203Y-AT	
CNP305	1-573-826-11	CONNECTOR, BOARD TO BOARD 12P				Q303	8-729-036-86	TRANSISTOR KTC3203Y-AT	
* CNP306	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P				Q304	8-729-422-57	TRANSISTOR UN4111	
* CNP307	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P				Q305	8-729-900-80	TRANSISTOR DTC114ES	
		< DIODE >				Q306	8-729-900-80	TRANSISTOR DTC114ES	
						Q307	8-729-036-86	TRANSISTOR KTC3203Y-AT	
D301	8-719-991-33	DIODE 1SS133T-77				Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D302	8-719-991-33	DIODE 1SS133T-77				Q309	8-729-036-86	TRANSISTOR KTC3203Y-AT	
D304	8-719-991-33	DIODE 1SS133T-77				Q310	8-729-900-80	TRANSISTOR DTC114ES	
D305	8-719-991-33	DIODE 1SS133T-77				Q311	8-729-195-23	TRANSISTOR 2SA952	
D307	8-719-991-33	DIODE 1SS133T-77				Q312	8-729-900-80	TRANSISTOR DTC114ES	
D308	8-719-991-33	DIODE 1SS133T-77				Q313	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D309	8-719-991-33	DIODE 1SS133T-77				Q314	8-729-900-80	TRANSISTOR DTC114ES	
D310	8-719-991-33	DIODE 1SS133T-77				Q315	8-729-209-15	TRANSISTOR 2SD2012	
D311	8-719-110-09	DIODE RD8.2ES-B3				Q316	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D312	8-719-991-33	DIODE 1SS133T-77				Q317	8-729-900-80	TRANSISTOR DTC114ES	
D313	8-719-109-89	DIODE RD5.6ESB2				Q318	8-729-209-15	TRANSISTOR 2SD2012	
D314	8-719-991-33	DIODE 1SS133T-77				Q319	8-729-011-92	TRANSISTOR 2SC2001TP-K1K2	
D315	8-719-921-89	DIODE MTZJ-13C				Q320	8-729-195-23	TRANSISTOR 2SA952	
D316	8-719-991-33	DIODE 1SS133T-77				Q323	8-729-265-52	TRANSISTOR 2SC2655	

AUDIO

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
Q324	8-729-422-57	TRANSISTOR	UN4111				R302	1-249-441-11	CARBON	100K	5%	1/4W	
Q325	8-729-119-78	TRANSISTOR	2SC2785-HFE				R303	1-249-429-11	CARBON	10K	5%	1/4W	
Q326	8-729-422-57	TRANSISTOR	UN4111				R304	1-249-429-11	CARBON	10K	5%	1/4W	
Q327	8-729-900-80	TRANSISTOR	DTC114ES				R305	1-249-421-11	CARBON	2.2K	5%	1/4W	
Q328	8-729-900-80	TRANSISTOR	DTC114ES				R306	1-249-429-11	CARBON	10K	5%	1/4W	
Q329	8-729-194-57	TRANSISTOR	2SC945-P				R307	1-247-807-11	CARBON	100	5%	1/4W	
Q330	8-729-194-57	TRANSISTOR	2SC945-P				R311	1-249-389-11	CARBON	4.7	5%	1/4W	
Q331	8-729-900-80	TRANSISTOR	DTC114ES				R312	1-249-439-11	CARBON	68K	5%	1/4W	
Q332	8-729-422-57	TRANSISTOR	UN4111				R313	1-249-389-11	CARBON	4.7	5%	1/4W	
Q333	8-729-422-57	TRANSISTOR	UN4111				R314	1-249-429-11	CARBON	10K	5%	1/4W	
Q334	8-729-119-76	TRANSISTOR	2SA1175-HFE				R315	1-249-429-11	CARBON	10K	5%	1/4W	
Q335	8-729-422-57	TRANSISTOR	UN4111				R316	1-249-425-11	CARBON	4.7K	5%	1/4W	
R101	1-249-431-11	CARBON	15K	5%	1/4W								
R102	1-249-404-00	CARBON	82	5%	1/4W								
R103	1-249-441-11	CARBON	100K	5%	1/4W		R320	1-247-903-00	CARBON	1M	5%	1/4W	
R104	1-247-843-11	CARBON	3.3K	5%	1/4W		R323	1-249-425-11	CARBON	4.7K	5%	1/4W	
R110	1-247-807-11	CARBON	100	5%	1/4W		R324	1-249-417-11	CARBON	1K	5%	1/4W	
R111	1-247-887-00	CARBON	220K	5%	1/4W		R325	1-249-417-11	CARBON	1K	5%	1/4W	
R112	1-249-437-11	CARBON	47K	5%	1/4W		R327	1-249-417-11	CARBON	1K	5%	1/4W	
R114	1-249-417-11	CARBON	1K	5%	1/4W								
R115	1-249-417-11	CARBON	1K	5%	1/4W		R328	1-249-417-11	CARBON	1K	5%	1/4W	
R116	1-249-437-11	CARBON	47K	5%	1/4W		R329	1-249-417-11	CARBON	1K	5%	1/4W	
R127	1-249-437-11	CARBON	47K	5%	1/4W		R331	1-247-863-00	CARBON	22K	5%	1/4W	
R140	1-249-425-11	CARBON	4.7K	5%	1/4W		R332	1-249-437-11	CARBON	47K	5%	1/4W	
R145	1-249-429-11	CARBON	10K	5%	1/4W		R334	1-249-429-11	CARBON	10K	5%	1/4W	
R146	1-249-417-11	CARBON	1K	5%	1/4W								
R151	1-249-429-11	CARBON	10K	5%	1/4W		R335	1-249-425-11	CARBON	4.7K	5%	1/4W	
R152	1-249-425-11	CARBON	4.7K	5%	1/4W		R336	1-247-807-11	CARBON	100	5%	1/4W	
R153	1-249-417-11	CARBON	1K	5%	1/4W		R337	1-249-437-11	CARBON	47K	5%	1/4W	
R155	1-247-887-00	CARBON	220K	5%	1/4W		R338	1-249-417-11	CARBON	1K	5%	1/4W	
R156	1-249-425-11	CARBON	4.7K	5%	1/4W		R339	1-249-417-11	CARBON	1K	5%	1/4W	
R201	1-249-431-11	CARBON	15K	5%	1/4W								
R202	1-249-404-00	CARBON	82	5%	1/4W		R340	1-249-417-11	CARBON	1K	5%	1/4W	
R203	1-249-441-11	CARBON	100K	5%	1/4W		R342	1-249-425-11	CARBON	4.7K	5%	1/4W	
R204	1-247-843-11	CARBON	3.3K	5%	1/4W		R343	1-249-429-11	CARBON	10K	5%	1/4W	
R210	1-247-807-11	CARBON	100	5%	1/4W		R344	1-249-429-11	CARBON	10K	5%	1/4W	
R211	1-247-887-00	CARBON	220K	5%	1/4W		R345	1-249-441-11	CARBON	100K	5%	1/4W	
R212	1-249-437-11	CARBON	47K	5%	1/4W		R347	1-249-401-11	CARBON	47	5%	1/4W	
R214	1-249-417-11	CARBON	1K	5%	1/4W		R349	1-249-435-11	CARBON	33K	5%	1/4W	
R215	1-249-417-11	CARBON	1K	5%	1/4W		R351	1-249-401-11	CARBON	47	5%	1/4W	
R216	1-249-437-11	CARBON	47K	5%	1/4W		R352	1-249-428-11	CARBON	8.2K	5%	1/4W	
R227	1-249-437-11	CARBON	47K	5%	1/4W		R353	1-249-417-11	CARBON	1K	5%	1/4W	
R240	1-249-425-11	CARBON	4.7K	5%	1/4W		R355	1-247-885-00	CARBON	180K	5%	1/4W	
R245	1-249-429-11	CARBON	10K	5%	1/4W		R356	1-249-437-11	CARBON	47K	5%	1/4W	
R246	1-249-417-11	CARBON	1K	5%	1/4W		R357	1-249-421-11	CARBON	2.2K	5%	1/4W	
R251	1-249-429-11	CARBON	10K	5%	1/4W		R360	1-249-441-11	CARBON	100K	5%	1/4W	
R252	1-249-425-11	CARBON	4.7K	5%	1/4W		R361	1-247-815-00	CARBON	220	5%	1/4W	
R253	1-249-417-11	CARBON	1K	5%	1/4W		R362	1-247-807-11	CARBON	100	5%	1/4W	
R255	1-247-887-00	CARBON	220K	5%	1/4W		R363	1-249-441-11	CARBON	100K	5%	1/4W	
R256	1-249-425-11	CARBON	4.7K	5%	1/4W		R364	1-249-413-11	CARBON	470	5%	1/4W	
R301	1-247-903-00	CARBON	1M	5%	1/4W		R367	1-247-807-11	CARBON	100	5%	1/4W	

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R376	1-249-421-11	CARBON	2.2K	5%	1/4W	C752	1-162-201-31	CERAMIC	12PF	5%	50V
R377	1-249-421-11	CARBON	2.2K	5%	1/4W	C753	1-162-203-31	CERAMIC	15PF	5%	50V
R378	1-247-807-11	CARBON	100	5%	1/4W	C754	1-126-154-11	ELECT	47uF	20%	6.3V
R379	1-247-815-00	CARBON	220	5%	1/4W	C755	1-162-306-11	CERAMIC	0.01uF	20%	16V
						C756	1-162-306-11	CERAMIC	0.01uF	20%	16V
< TRANSFORMER >											
T301	1-429-820-11	TRANSFORMER, BIAS OSCILLATION				C757	1-162-306-11	CERAMIC	0.01uF	20%	16V
*****						C758	1-162-306-11	CERAMIC	0.01uF	20%	16V
						C759	1-162-306-11	CERAMIC	0.01uF	20%	16V
*	A-3321-485-A	CD BOARD, COMPLETE				C760	1-162-306-11	CERAMIC	0.01uF	20%	16V
		*****				C761	1-162-306-11	CERAMIC	0.01uF	20%	16V
< CAPACITOR >											
C701	1-162-302-11	CERAMIC	0.0022uF	30%	16V	C763	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C702	1-136-165-00	FILM	0.1uF	5%	50V	C764	1-124-259-11	ELECT	4.7uF	20%	16V
C703	1-136-165-00	FILM	0.1uF	5%	50V	C765	1-162-306-11	CERAMIC	0.01uF	20%	16V
C704	1-136-165-00	FILM	0.1uF	5%	50V	C773	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C705	1-131-375-00	TANTALUM	4.7uF	10%	10V	C774	1-124-259-11	ELECT	4.7uF	20%	16V
C706	1-136-159-00	FILM	0.033uF	5%	50V	C782	1-162-294-31	CERAMIC	0.001uF	10%	50V
C707	1-136-156-00	FILM	0.018uF	5%	50V	C787	1-128-241-11	ELECT	220uF	20%	10V
C708	1-162-199-31	CERAMIC	10PF	5%	50V	C788	1-162-306-11	CERAMIC	0.01uF	20%	16V
C709	1-126-162-11	ELECT	3.3uF	20%	50V	C792	1-162-290-31	CERAMIC	470PF	10%	50V
C710	1-136-495-11	FILM	0.068uF	5%	50V	C793	1-162-290-31	CERAMIC	470PF	10%	50V
C711	1-162-215-31	CERAMIC	47PF	5%	50V						
C712	1-162-306-11	CERAMIC	0.01uF	20%	16V	* CNP701	1-779-466-11	CONNECTOR, FFC/FPC 16P			
C713	1-136-159-00	FILM	0.033uF	5%	50V	* CNP705	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
C714	1-162-306-11	CERAMIC	0.01uF	20%	16V	CNP706	1-691-068-21	HOUSING, CONNECTOR 9P			
C715	1-136-159-00	FILM	0.033uF	5%	50V						
C716	1-136-165-00	FILM	0.1uF	5%	50V						
C717	1-104-664-11	ELECT	47uF	20%	10V						
C718	1-126-964-11	ELECT	10uF	20%	50V	IC701	8-752-074-34	IC	CXA1782BQ		
C721	1-130-491-00	MYLAR	0.047uF	5%	50V	IC702	8-752-372-94	IC	CXD2507AQ		
C722	1-161-494-00	CERAMIC	0.022uF		25V	IC703	8-759-473-42	IC	BA6898FP		
						IC704	8-759-364-34	IC	SM5877AM		
C723	1-130-495-00	MYLAR	0.1uF	5%	50V						
C724	1-128-241-11	ELECT	220uF	20%	10V						
C725	1-162-199-31	CERAMIC	10PF	5%	50V						
C726	1-162-294-31	CERAMIC	0.001uF	10%	50V	L701	1-410-397-21	FERRITE BEAD INDUCTOR	1.1uH		
C727	1-162-306-11	CERAMIC	0.01uF	20%	16V	L702	1-410-397-21	FERRITE BEAD INDUCTOR	1.1uH		
						L752	1-410-324-11	INDUCTOR	4.7uH		
C728	1-162-306-11	CERAMIC	0.01uF	20%	16V	L760	1-410-397-21	FERRITE BEAD INDUCTOR	1.1uH		
C729	1-126-154-11	ELECT	47uF	20%	6.3V	L770	1-410-397-21	FERRITE BEAD INDUCTOR	1.1uH		
C730	1-104-652-11	ELECT	470uF	20%	10V						
C731	1-162-305-11	CERAMIC	0.0068uF	30%	16V						
C732	1-130-299-00	FILM	0.012uF	5%	50V						
C734	1-162-305-11	CERAMIC	0.0068uF	30%	16V	Q701	8-729-195-23	TRANSISTOR	2SA952		
C741	1-126-154-11	ELECT	47uF	20%	6.3V	Q703	8-729-900-74	TRANSISTOR	DTC143TS		
C742	1-136-173-00	FILM	0.47uF	5%	50V						
C743	1-162-290-31	CERAMIC	470PF	10%	50V						
C744	1-162-286-21	CERAMIC	220PF	10%	50V						
C745	1-136-169-00	FILM	0.22uF	5%	50V						
C746	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C747	1-137-370-11	FILM	0.01uF	5%	50V						
C750	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V						

CD	CD MOTOR	CONTROL
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Ref. No.	Part No.	Description	Remark
R708	1-247-883-00	CARBON 150K 5%	1/4W
R709	1-247-862-11	CARBON 20K 5%	1/4W
R710	1-249-393-11	CARBON 10 5%	1/4W
R714	1-247-883-00	CARBON 150K 5%	1/4W
R715	1-249-430-11	CARBON 12K 5%	1/4W
R716	1-249-430-11	CARBON 12K 5%	1/4W
R717	1-249-429-11	CARBON 10K 5%	1/4W
R718	1-247-899-11	CARBON 680K 5%	1/4W
R720	1-247-891-00	CARBON 330K 5%	1/4W
R722	1-249-439-11	CARBON 68K 5%	1/4W
R723	1-249-440-11	CARBON 82K 5%	1/4W
R725	1-249-437-11	CARBON 47K 5%	1/4W
R726	1-249-429-11	CARBON 10K 5%	1/4W
R727	1-249-429-11	CARBON 10K 5%	1/4W
R730	1-249-435-11	CARBON 33K 5%	1/4W
R731	1-247-863-00	CARBON 22K 5%	1/4W
R734	1-249-437-11	CARBON 47K 5%	1/4W
R735	1-249-429-11	CARBON 10K 5%	1/4W
R736	1-249-417-11	CARBON 1K 5%	1/4W
R740	1-247-843-11	CARBON 3.3K 5%	1/4W
R741	1-249-417-11	CARBON 1K 5%	1/4W
R742	1-249-429-11	CARBON 10K 5%	1/4W
R743	1-247-903-00	CARBON 1M 5%	1/4W
R744	1-247-887-00	CARBON 220K 5%	1/4W
R745	1-249-429-11	CARBON 10K 5%	1/4W
R746	1-249-437-11	CARBON 47K 5%	1/4W
R748	1-249-429-11	CARBON 10K 5%	1/4W
R749	1-249-429-11	CARBON 10K 5%	1/4W
R750	1-249-413-11	CARBON 470 5%	1/4W
R751	1-247-807-11	CARBON 100 5%	1/4W
R752	1-249-429-11	CARBON 10K 5%	1/4W
R753	1-249-429-11	CARBON 10K 5%	1/4W
R754	1-249-429-11	CARBON 10K 5%	1/4W
R756	1-249-440-11	CARBON 82K 5%	1/4W
R757	1-249-439-11	CARBON 68K 5%	1/4W
R758	1-249-439-11	CARBON 68K 5%	1/4W
R759	1-249-439-11	CARBON 68K 5%	1/4W
R760	1-249-417-11	CARBON 1K 5%	1/4W
R761	1-249-417-11	CARBON 1K 5%	1/4W
R762	1-249-417-11	CARBON 1K 5%	1/4W
R763	1-249-417-11	CARBON 1K 5%	1/4W
R764	1-249-417-11	CARBON 1K 5%	1/4W
R766	1-249-417-11	CARBON 1K 5%	1/4W
R776	1-249-417-11	CARBON 1K 5%	1/4W
R791	1-247-843-11	CARBON 3.3K 5%	1/4W
< VARIABLE RESISTOR >			
RV701	1-241-786-11	RES, ADJ, CARBON 22K	
RV702	1-241-786-11	RES, ADJ, CARBON 22K	
RV703	1-223-459-21	RES, ADJ, CERMET 2.2K	
RV704	1-241-786-11	RES, ADJ, CARBON 22K	

Ref. No.	Part No.	Description	Remark
< VIBRATOR >			
X701	1-767-226-11	VIBRATOR, CRYSTAL (16.9344MHz)	

	1-639-678-12	CD MOTOR BOARD	

< CONNECTOR >			
CNP707	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P	
< SWITCH >			
S701	1-572-085-11	SWITCH, LEAF (LIMIT)	

*	A-3321-484-A	CONTROL BOARD, COMPLETE (EXCEPT EE)	
*	A-3321-490-A	CONTROL BOARD, COMPLETE (EE)	

*	3-014-121-01	HOLDER (LCD)	
*	3-014-130-01	SHEET, DIFFUSION	
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
< CAPACITOR >			
C801	1-126-964-11	ELECT 10uF 20%	50V
C802	1-104-905-11	DOUBLE LAYERS 0.22F	5.5V
C803	1-104-664-11	ELECT 47uF 20%	10V
C804	1-162-306-11	CERAMIC 0.01uF 20%	16V
C805	1-104-665-11	ELECT 100uF 20%	10V
C806	1-162-306-11	CERAMIC 0.01uF 20%	16V
C807	1-102-516-11	CERAMIC 27PF 5%	50V
C808	1-102-516-11	CERAMIC 27PF 5%	50V
C809	1-161-494-00	CERAMIC 0.022uF	25V
C810	1-126-964-11	ELECT 10uF 20%	50V
C811	1-104-664-11	ELECT 47uF 20%	10V
C813	1-162-306-11	CERAMIC 0.01uF 20%	16V
C814	1-162-306-11	CERAMIC 0.01uF 20%	16V
C815	1-162-306-11	CERAMIC 0.01uF 20%	16V
C816	1-162-306-11	CERAMIC 0.01uF 20%	16V
C817	1-102-518-11	CERAMIC 33PF 5%	50V
C818	1-102-516-11	CERAMIC 27PF 5%	50V
C819	1-102-516-11	CERAMIC 27PF 5%	50V
C820	1-102-518-11	CERAMIC 33PF 5%	50V
C821	1-162-306-11	CERAMIC 0.01uF 20%	16V
C822	1-162-306-11	CERAMIC 0.01uF 20%	16V
C823	1-162-282-31	CERAMIC 100PF 10%	50V
C824	1-162-282-31	CERAMIC 100PF 10%	50V
C825	1-162-282-31	CERAMIC 100PF 10%	50V
C826	1-162-282-31	CERAMIC 100PF 10%	50V
C827	1-162-282-31	CERAMIC 100PF 10%	50V
C829	1-162-282-31	CERAMIC 100PF 10%	50V
C830	1-162-282-31	CERAMIC 100PF 10%	50V
C831	1-162-282-31	CERAMIC 100PF 10%	50V
C832	1-162-282-31	CERAMIC 100PF 10%	50V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C833	1-162-282-31	CERAMIC	100PF	10%	50V			< CABLE HOLDER >			
C834	1-162-282-31	CERAMIC	100PF	10%	50V						
C835	1-162-282-31	CERAMIC	100PF	10%	50V						
C836	1-162-282-31	CERAMIC	100PF	10%	50V						
C837	1-162-282-31	CERAMIC	100PF	10%	50V			< COIL >			
C838	1-162-282-31	CERAMIC	100PF	10%	50V						
C839	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C841	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C842	1-162-306-11	CERAMIC	0.01uF	20%	16V			< LIQUID CRYSTAL DISPLAY >			
C843	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C844	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C845	1-162-282-31	CERAMIC	100PF	10%	50V			< TRANSISTOR >			
C846	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C847	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C848	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C849	1-162-282-31	CERAMIC	100PF	10%	50V						
C850	1-162-282-31	CERAMIC	100PF	10%	50V						
C851	1-162-282-31	CERAMIC	100PF	10%	50V						
C852	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C853	1-162-282-31	CERAMIC	100PF	10%	50V			< RESISTOR >			
C854	1-162-282-31	CERAMIC	100PF	10%	50V						
C855	1-162-282-31	CERAMIC	100PF	10%	50V						
C856	1-162-282-31	CERAMIC	100PF	10%	50V						
C857	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C858	1-126-964-11	ELECT	10uF	20%	50V						
C859	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C860	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C861	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C863	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C866	1-126-964-11	ELECT	10uF	20%	50V						
C867	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C868	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C869	1-162-306-11	CERAMIC	0.01uF	20%	16V						
C901	1-104-664-11	ELECT	47uF	20%	10V						
< CONNECTOR >											
CN801	1-774-493-11	CONNECTOR, FFC/FPC 27P									
CNP802	1-770-389-11	PIN, CONNECTOR (PC BOARD) 5P									
CNP803	1-770-387-11	PIN, CONNECTOR (PC BOARD) 3P									
* CNP804	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P									
CNP805	1-568-852-11	CONNECTOR, FFC/FPC 9P									
< DIODE >											
D801	8-719-991-33	DIODE 1SS133T-77									
D802	8-719-991-33	DIODE 1SS133T-77									
D803	8-719-991-33	DIODE 1SS133T-77									
D804	8-719-991-33	DIODE 1SS133T-77									
D805	8-719-991-33	DIODE 1SS133T-77									
< IC >											
IC801	8-752-882-79	IC CXP83120A-022Q (EXCEPT EE)									
IC801	8-752-899-66	IC CXP83120A-031Q (EE)									
IC802	8-759-449-53	IC S-81256PG-Z									
IC803	8-759-511-42	IC S-80730AN									
* KH805	1-573-287-11	HOLDER, CABLE 2P									
L801	1-408-117-00	INDUCTOR 10uH									
L802	1-412-832-11	INDUCTOR 1uH									
< LIQUID CRYSTAL DISPLAY >											
LCD801	1-801-786-11	DISPLAY PANEL, LIQUID CRYSTAL									
< TRANSISTOR >											
Q801	8-729-194-57	TRANSISTOR 2SC945-P									
Q802	8-729-922-66	TRANSISTOR 2SC2410SN									
Q803	8-729-922-66	TRANSISTOR 2SC2410SN									
Q804	8-729-900-80	TRANSISTOR DTC114ES									
Q805	8-729-195-23	TRANSISTOR 2SA952									
< RESISTOR >											
R801	1-249-417-11	CARBON	1K	5%	1/4W						
R802	1-249-417-11	CARBON	1K	5%	1/4W						
R803	1-249-417-11	CARBON	1K	5%	1/4W						
R804	1-249-417-11	CARBON	1K	5%	1/4W						
R805	1-249-417-11	CARBON	1K	5%	1/4W						
R806	1-249-417-11	CARBON	1K	5%	1/4W						
R807	1-249-429-11	CARBON	10K	5%	1/4W						
R808	1-249-417-11	CARBON	1K	5%	1/4W						
R809	1-249-417-11	CARBON	1K	5%	1/4W						
R810	1-249-417-11	CARBON	1K	5%	1/4W						
R811	1-249-417-11	CARBON	1K	5%	1/4W						
R812	1-249-429-11	CARBON	10K	5%	1/4W						
R813	1-249-429-11	CARBON	10K	5%	1/4W						
R814	1-249-429-11	CARBON	10K	5%	1/4W						
R815	1-249-417-11	CARBON	1K	5%	1/4W						
R816	1-249-429-11	CARBON	10K	5%	1/4W						
R818	1-249-417-11	CARBON	1K	5%	1/4W						
R819	1-249-417-11	CARBON	1K	5%	1/4W						
R820	1-249-417-11	CARBON	1K	5%	1/4W						
R821	1-249-417-11	CARBON	1K	5%	1/4W						
R822	1-249-429-11	CARBON	10K	5%	1/4W						
R823	1-249-429-11	CARBON	10K	5%	1/4W						
R824	1-249-417-11	CARBON	1K	5%	1/4W						
R825	1-249-417-11	CARBON	1K	5%	1/4W						
R826	1-249-413-11	CARBON	470	5%	1/4W						
R827	1-249-413-11	CARBON	470	5%	1/4W						
R828	1-249-417-11	CARBON	1K	5%	1/4W						
R829	1-249-417-11	CARBON	1K	5%	1/4W						
R830	1-249-429-11	CARBON	10K	5%	1/4W						
R831	1-249-429-11	CARBON	10K	5%	1/4W						
R832	1-249-425-11	CARBON	4.7K	5%	1/4W						
R833	1-249-425-11	CARBON	4.7K	5%	1/4W						
R834	1-249-429-11	CARBON	10K	5%	1/4W						
R835	1-249-429-11	CARBON	10K	5%	1/4W						

CONTROL	HEAD	HEADPHONE	JACK
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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R836	1-249-429-11	CARBON	10K	5%	1/4W	R918	1-249-417-11	CARBON	1K	5%	1/4W
R837	1-249-417-11	CARBON	1K	5%	1/4W	R919	1-249-417-11	CARBON	1K	5%	1/4W
R841	1-249-429-11	CARBON	10K	5%	1/4W	R920	1-249-417-11	CARBON	1K	5%	1/4W
R842	1-249-429-11	CARBON	10K	5%	1/4W	R921	1-249-417-11	CARBON	1K	5%	1/4W
R843	1-249-429-11	CARBON	10K	5%	1/4W	R922	1-249-417-11	CARBON	1K	5%	1/4W
R844	1-247-863-00	CARBON	22K	5%	1/4W	R923	1-249-417-11	CARBON	1K	5%	1/4W
R845	1-249-411-11	CARBON	330	5%	1/4W	R924	1-249-417-11	CARBON	1K	5%	1/4W
R846	1-249-429-11	CARBON	10K	5%	1/4W	R925	1-249-417-11	CARBON	1K	5%	1/4W
R847	1-249-417-11	CARBON	1K	5%	1/4W	R926	1-249-417-11	CARBON	1K	5%	1/4W
R848	1-249-417-11	CARBON	1K	5%	1/4W	R927	1-249-417-11	CARBON	1K	5%	1/4W
R849	1-249-417-11	CARBON	1K	5%	1/4W	< VIBRATOR >					
R850	1-249-417-11	CARBON	1K	5%	1/4W	X801	1-760-105-11	VIBRATOR, CRYSTAL (32.768kHz)			
R851	1-249-417-11	CARBON	1K	5%	1/4W	X802	1-767-184-11	VIBRATOR, CERAMIC (4.19MHz)			
R852	1-249-417-11	CARBON	1K	5%	1/4W	*****					
R853	1-249-417-11	CARBON	1K	5%	1/4W	*	1-662-743-11	HEAD BOARD			
R854	1-249-437-11	CARBON	47K	5%	1/4W	*****					
R855	1-249-417-11	CARBON	1K	5%	1/4W	*****					
R856	1-249-425-11	CARBON	4.7K	5%	1/4W	*	1-666-187-11	HEADPHONE BOARD			
R857	1-249-425-11	CARBON	4.7K	5%	1/4W	*****					
R858	1-249-425-11	CARBON	4.7K	5%	1/4W	< CAPACITOR >					
R859	1-249-425-11	CARBON	4.7K	5%	1/4W	C154	1-162-294-31	CERAMIC	0.001uF	10%	50V
R860	1-249-425-11	CARBON	4.7K	5%	1/4W	C254	1-162-294-31	CERAMIC	0.001uF	10%	50V
R861	1-247-863-00	CARBON	22K	5%	1/4W	< DIODE >					
R866	1-249-441-11	CARBON	100K	5%	1/4W	D302	8-719-911-19	DIODE 1SS119			
R867	1-249-417-11	CARBON	1K	5%	1/4W	< JACK >					
R868	1-249-441-11	CARBON	100K	5%	1/4W	J301	1-566-891-11	JACK (㏄)			
R869	1-249-428-11	CARBON	8.2K	5%	1/4W	< CABLE HOLDER >					
R872	1-249-429-11	CARBON	10K	5%	1/4W	* KH302	1-565-386-11	HOLDER, CABLE 5P			
R873	1-249-437-11	CARBON	47K	5%	1/4W	< FERRITE BEAD >					
R877	1-249-437-11	CARBON	47K	5%	1/4W	L351	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH			
R880	1-249-437-11	CARBON	47K	5%	1/4W	< RESISTOR >					
R881	1-249-437-11	CARBON	47K	5%	1/4W	R151	1-247-807-11	CARBON	100	5%	1/4W
R882	1-249-425-11	CARBON	4.7K	5%	1/4W	R251	1-247-807-11	CARBON	100	5%	1/4W
R900	1-249-417-11	CARBON	1K	5%	1/4W	*****					
R901	1-249-417-11	CARBON	1K	5%	1/4W	*	1-671-068-11	JACK BOARD			
R902	1-249-417-11	CARBON	1K	5%	1/4W	*****					
R903	1-249-417-11	CARBON	1K	5%	1/4W	< CAPACITOR >					
R904	1-249-417-11	CARBON	1K	5%	1/4W	C186	1-162-282-31	CERAMIC	100PF	10%	50V
R905	1-249-417-11	CARBON	1K	5%	1/4W	C286	1-162-282-31	CERAMIC	100PF	10%	50V
R906	1-249-417-11	CARBON	1K	5%	1/4W	C384	1-161-494-00	CERAMIC	0.022uF		25V
R907	1-249-417-11	CARBON	1K	5%	1/4W						
R908	1-249-417-11	CARBON	1K	5%	1/4W						
R909	1-249-417-11	CARBON	1K	5%	1/4W						
R910	1-249-417-11	CARBON	1K	5%	1/4W						
R911	1-249-417-11	CARBON	1K	5%	1/4W						
R912	1-249-417-11	CARBON	1K	5%	1/4W						
R913	1-249-417-11	CARBON	1K	5%	1/4W						
R914	1-249-417-11	CARBON	1K	5%	1/4W						
R915	1-249-417-11	CARBON	1K	5%	1/4W						
R916	1-249-417-11	CARBON	1K	5%	1/4W						
R917	1-249-417-11	CARBON	1K	5%	1/4W						

										JACK		LAMP		LINE		POWER	
Ref. No.	Part No.	Description	Remark							Ref. No.	Part No.	Description	Remark				
< JACK >										< COIL >							
* J501	1-537-405-11	TERMINAL BOARD (2P SP)	(SPEAKER OUT R-ch)							L111	1-412-503-11	INDUCTOR 22uH					
* J502	1-750-178-31	JACK, PIN 2P (SIGNAL INPUT)								L131	1-412-503-11	INDUCTOR 22uH					
< CABLE HOLDER >										L211	1-412-503-11	INDUCTOR 22uH					
										L231	1-412-503-11	INDUCTOR 22uH					
										L301	1-410-397-21	FERRITE BEAD INDUCTOR 1.1uH					
* KH511	1-565-385-11	HOLDER, CABLE 4P								L311	1-412-503-11	INDUCTOR 22uH					
* KH513	1-573-287-11	HOLDER, CABLE 2P								L331	1-412-503-11	INDUCTOR 22uH					
*****										< TRANSISTOR >							
* 1-666-186-11	LAMP BOARD	*****								Q101	8-729-900-74	TRANSISTOR DTC143TS					
< CABLE HOLDER >										Q104	8-729-900-74	TRANSISTOR DTC143TS					
										Q201	8-729-900-74	TRANSISTOR DTC143TS					
* KH804	1-573-287-11	HOLDER, CABLE 2P								Q204	8-729-900-74	TRANSISTOR DTC143TS					
< PILOT LAMP >										< RESISTOR >							
										R120	1-249-441-11	CARBON 100K 5%	1/4W				
PL801	1-517-474-21	LAMP, PILOT								R121	1-249-441-11	CARBON 100K 5%	1/4W				
PL802	1-517-474-21	LAMP, PILOT								R122	1-247-843-11	CARBON 3.3K 5%	1/4W				
*****										R123	1-247-863-00	CARBON 22K 5%	1/4W				
										R124	1-249-421-11	CARBON 2.2K 5%	1/4W				
* A-3321-474-A	LINE BOARD, COMPLETE	*****								R125	1-249-421-11	CARBON 2.2K 5%	1/4W				
< CAPACITOR >										R220	1-249-441-11	CARBON 100K 5%	1/4W				
C123	1-162-282-31	CERAMIC 100PF 10% 50V								R221	1-249-441-11	CARBON 100K 5%	1/4W				
C125	1-126-964-11	ELECT 10uF 20% 50V								R222	1-247-843-11	CARBON 3.3K 5%	1/4W				
C126	1-126-964-11	ELECT 10uF 20% 50V								R223	1-247-863-00	CARBON 22K 5%	1/4W				
C223	1-162-282-31	CERAMIC 100PF 10% 50V								R224	1-249-421-11	CARBON 2.2K 5%	1/4W				
C225	1-126-964-11	ELECT 10uF 20% 50V								R225	1-249-421-11	CARBON 2.2K 5%	1/4W				
C226	1-126-964-11	ELECT 10uF 20% 50V								R308	1-249-425-11	CARBON 4.7K 5%	1/4W				
C318	1-126-963-11	ELECT 4.7uF 20% 50V								R309	1-249-426-11	CARBON 5.6K 5%	1/4W				
C319	1-161-494-00	CERAMIC 0.022uF 25V								R321	1-247-807-11	CARBON 100 5%	1/4W				
C320	1-104-665-11	ELECT 100uF 20% 10V								*****							
C321	1-104-664-11	ELECT 47uF 20% 10V								* 1-671-064-11	POWER BOARD	*****					
< DIODE >										1-533-233-21	HOLDER, FUSE						
D321	8-719-991-33	DIODE 1SS133T-77								< CAPACITOR >							
D322	8-719-991-33	DIODE 1SS133T-77								C501	1-101-005-00	CERAMIC 0.022uF 50V					
< IC >										C502	1-136-169-00	FILM 0.22uF 5% 50V					
IC304	8-759-634-51	IC M5218AP								C503	1-136-169-00	FILM 0.22uF 5% 50V					
J331	8-749-921-12	IC GP1F32T (OPTICAL DIGITAL OUT (CD))								C504	1-101-005-00	CERAMIC 0.022uF 50V					
< JACK >										C505	1-136-169-00	FILM 0.22uF 5% 50V					
J323	1-566-822-21	JACK (LINE IN)								< CONNECTOR >							
J332	1-566-822-21	JACK (LINE OUT)								CNP501	1-564-321-00	PIN, CONNECTOR 2P					
< CABLE HOLDER >										< DIODE >							
* KH307	1-568-135-21	HOLDER, CABLE 7P								D501	8-719-902-17	DIODE U15G					
										D502	8-719-902-17	DIODE U15G					
										D503	8-719-902-17	DIODE U15G					
										D504	8-719-902-17	DIODE U15G					

POWER	SW	SW (A)	SW (B)
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Ref. No.	Part No.	Description	Remark			
		< FUSE >				
△ F501	1-532-505-31	FUSE, TIME-LAG (T5A/250V)				
		< TRANSFORMER >				
△ FL501	1-402-663-11	TRANSFORMER, LINE FILTER (LFT)				
		< CABLE HOLDER >				
* KH505	1-573-287-11	HOLDER, CABLE 2P				

*	1-662-742-11	SW BOARD				

		< CONNECTOR >				
* CN691	1-564-725-11	PIN, CONNECTOR (SMALL TYPE) 9P				
		< PHOTO REFLECTOR >				
PH691	1-801-455-11	PHOTO REFLECTOR				
		< RESISTOR >				
R691	1-247-827-11	CARBON 680 5% 1/4W				
		< SWITCH >				
S691	1-762-811-11	SWITCH, LEAF (HALF (CASSETTE))				
S694	1-762-811-11	SWITCH, LEAF (REC-REV (ERASE PROOF))				
S695	1-762-811-11	SWITCH, LEAF (REC-FWD (ERASE PROOF))				
S696	1-762-810-11	SWITCH, LEAF (MODE (HEAD POSITION))				



*	1-666-184-11	SW (A) BOARD				

		< CAPACITOR >				
C902	1-162-282-31	CERAMIC 100PF 10% 50V				
C903	1-161-494-00	CERAMIC 0.022uF 25V				
		< CONNECTOR >				
CNP901	1-770-398-11	HOUSING, CONNECTOR (PC BOARD) 5P				
CNP902	1-770-396-11	HOUSING, CONNECTOR (PC BOARD) 3P				
		< IC >				
IC901	8-759-471-49	IC NJL57H400A				
		< CABLE HOLDER >				
* KH903	1-573-287-11	HOLDER, CABLE 2P				
		< RESISTOR >				
R950	1-249-415-11	CARBON 680 5% 1/4W				
R951	1-249-416-11	CARBON 820 5% 1/4W				
R952	1-249-418-11	CARBON 1.2K 5% 1/4W				
R953	1-249-420-11	CARBON 1.8K 5% 1/4W				

Ref. No.	Part No.	Description	Remark			
R954	1-247-843-11	CARBON 3.3K 5% 1/4W				
R955	1-249-427-11	CARBON 6.8K 5% 1/4W				
R956	1-249-415-11	CARBON 680 5% 1/4W				
R957	1-249-416-11	CARBON 820 5% 1/4W				
R958	1-249-418-11	CARBON 1.2K 5% 1/4W				
R959	1-249-420-11	CARBON 1.8K 5% 1/4W				
R960	1-247-843-11	CARBON 3.3K 5% 1/4W				
R961	1-249-427-11	CARBON 6.8K 5% 1/4W				
R962	1-249-415-11	CARBON 680 5% 1/4W				
R963	1-249-416-11	CARBON 820 5% 1/4W				
R964	1-249-418-11	CARBON 1.2K 5% 1/4W				
R965	1-249-420-11	CARBON 1.8K 5% 1/4W				
R966	1-247-843-11	CARBON 3.3K 5% 1/4W				
R967	1-249-427-11	CARBON 6.8K 5% 1/4W				
		< SWITCH >				
S901	1-692-014-11	SWITCH, KEY BOARD (▶▶)				
S902	1-692-014-11	SWITCH, KEY BOARD (◀◀)				
S903	1-692-014-11	SWITCH, KEY BOARD (▶ (TAPE))				
S904	1-692-014-11	SWITCH, KEY BOARD (■ (TAPE))				
S905	1-692-014-11	SWITCH, KEY BOARD (◀ (TAPE))				
S906	1-692-014-11	SWITCH, KEY BOARD (●/■ (TAPE))				
S907	1-692-014-11	SWITCH, KEY BOARD (DIR MODE)				
S908	1-692-014-11	SWITCH, KEY BOARD (■ (CD))				
S909	1-692-014-11	SWITCH, KEY BOARD (■ (CD))				
S910	1-692-014-11	SWITCH, KEY BOARD (▶ (CD))				
S911	1-692-014-11	SWITCH, KEY BOARD (FUNCTION)				
S912	1-692-014-11	SWITCH, KEY BOARD (OPERATE)				
S913	1-692-014-11	SWITCH, KEY BOARD (DISPLAY/ENTER)				
S914	1-692-014-11	SWITCH, KEY BOARD (VOLUME +)				
S915	1-692-014-11	SWITCH, KEY BOARD (VOLUME -)				
S916	1-692-014-11	SWITCH, KEY BOARD (▶▶I/TUNE -)				
S917	1-692-014-11	SWITCH, KEY BOARD (I◀◀/TUNE +)				
S918	1-692-014-11	SWITCH, KEY BOARD (BAND (RADIO))				
S919	1-692-014-11	SWITCH, KEY BOARD (PRESET + (RADIO))				
S920	1-692-014-11	SWITCH, KEY BOARD (PRESET - (RADIO))				

*	1-666-185-11	SW (B) BOARD				

		< CABLE HOLDER >				
* KH904	1-573-287-11	HOLDER, CABLE 2P				
		< RESISTOR >				
R970	1-249-415-11	CARBON 680 5% 1/4W				
R971	1-249-416-11	CARBON 820 5% 1/4W				
		< SWITCH >				
S921	1-692-014-11	SWITCH, KEY BOARD (SOUND)				
S922	1-692-014-11	SWITCH, KEY BOARD (PGM SET/AUTO PRESET)				
S923	1-692-014-11	SWITCH, KEY BOARD (PLAY MODE MONO/ST/ISS)				

The components identified by mark  or dotted line with mark.  are critical for safety. Replace only with part number specified.

TERMINAL

TUNER

Ref. No.	Part No.	Description	Remark			
*	1-671-066-11	TERMINAL BOARD *****				
< CAPACITOR >						
C284	1-130-495-00	MYLAR	0.1uF	5%	50V	
C285	1-130-495-00	MYLAR	0.1uF	5%	50V	
C381	1-126-946-11	ELECT	6800uF	20%	25V	
< CONNECTOR >						
* CNP503	1-506-946-11	PIN, CONNECTOR 4P				
* CNP504	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P				
* CNP505	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P				
< CABLE HOLDER >						
* KH510	1-565-385-11	HOLDER, CABLE 4P				
* KH512	1-573-287-11	HOLDER, CABLE 2P				
< FERRITE BEAD >						
L501	1-410-397-21	FERRITE BEAD INDUCTOR	1.1uH			
< RESISTOR >						
△ R283	1-249-385-11	CARBON	2.2	5%	1/6W	F
△ R284	1-249-385-11	CARBON	2.2	5%	1/6W	F

*	A-3321-478-A	TUNER BOARD, COMPLETE (EXCEPT IT,EE)				
*	A-3321-479-A	TUNER BOARD, COMPLETE (IT)				
*	A-3321-488-A	TUNER BOARD, COMPLETE (EE)				

< CAPACITOR >						
C1	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C2	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C3	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C4	1-130-483-00	MYLAR	0.01uF	5%	50V	
C6	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C7	1-162-282-31	CERAMIC	100PF	10%	50V	
C8	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C9	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C10	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C11	1-104-665-11	ELECT	100uF	20%	10V	
C12	1-126-963-11	ELECT	4.7uF	20%	50V	
C13	1-162-215-31	CERAMIC	47PF	5%	50V	
C15	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C16	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C17	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C18	1-161-057-00	CERAMIC	0.033uF	10%	50V	
C19	1-161-057-00	CERAMIC	0.033uF	10%	50V	
C20	1-126-964-11	ELECT	10uF	20%	50V	
C21	1-126-964-11	ELECT	10uF	20%	50V	
C22	1-162-850-11	CERAMIC	0.082uF	10%	16V	
C23	1-162-849-11	CERAMIC	0.068uF	10%	16V	
C24	1-162-850-11	CERAMIC	0.082uF	10%	16V	

Ref. No.	Part No.	Description	Remark			
C25	1-126-964-11	ELECT	10uF	20%	50V	
C26	1-162-288-31	CERAMIC	330PF	10%	50V	
C29	1-162-286-21	CERAMIC	220PF	10%	50V	
C30	1-162-290-31	CERAMIC	470PF	10%	50V	
C31	1-126-964-11	ELECT	10uF	20%	50V	
C32	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C33	1-161-494-00	CERAMIC	0.022uF		25V	
C40	1-102-518-11	CERAMIC	33PF	5%	50V	
C41	1-162-203-31	CERAMIC	15PF	5%	50V	
C42	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C43	1-162-282-31	CERAMIC	100PF	10%	50V	
C44	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C45	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C46	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C47	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C48	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C49	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C50	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C51	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C52	1-126-964-11	ELECT	10uF	20%	50V	
C53	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C54	1-126-964-11	ELECT	10uF	20%	50V	
C55	1-136-177-00	FILM	1uF	5%	50V	
C56	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C60	1-161-772-11	CERAMIC	0.1uF	10%	25V	
C61	1-162-291-31	CERAMIC	560PF	10%	50V	
C62	1-162-207-31	CERAMIC	22PF	5%	50V	
C63	1-161-772-11	CERAMIC	0.1uF	10%	25V	
C64	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C65	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C66	1-130-495-00	MYLAR	0.1uF	5%	50V	
C69	1-161-494-00	CERAMIC	0.022uF		25V	
C70	1-136-356-11	FILM	470PF	5%	63V	
C72	1-162-282-31	CERAMIC	100PF	10%	50V	
C73	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C74	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C75	1-162-281-31	CERAMIC	91PF	10%	50V	
C76	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C84	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C88	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C90	1-162-282-31	CERAMIC	100PF	10%	50V	
C91	1-162-282-31	CERAMIC	100PF	10%	50V	
C93	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C95	1-162-282-31	CERAMIC	100PF	10%	50V	
C96	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C99	1-162-294-31	CERAMIC	0.001uF	10%	50V	
< FILTER >						
CF1	1-767-557-11	FILTER, CERAMIC				
CF2	1-767-557-11	FILTER, CERAMIC				
CF3	1-767-557-11	FILTER, CERAMIC				
CF4	1-767-096-11	VIBRATOR, CERAMIC				

The components identified by
mark △ or dotted line with mark.
△ are critical for safety.
Replace only with part number
specified.

TUNER

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< ENCAPSULATED COMPONENT >				< RESISTOR >			
CFT1	1-239-173-11	ENCAPSULATED COMPONENT		R1	1-249-417-11	CARBON 1K 5%	1/4W
		< CONNECTOR >		R2	1-249-411-11	CARBON 330 5%	1/4W
CNP1	1-778-310-11	PLUG, CONNECTOR 2P (MW/LW)		R3	1-247-791-00	CARBON 22 5%	1/4W
CNP2	1-779-535-11	CONNECTOR, COAXIAL (EXT ANT FM)		R10	1-249-403-11	CARBON 68 5%	1/4W
CNP3	1-573-844-11	CONNECTOR, BOARD TO BOARD 12P		R11	1-249-425-11	CARBON 4.7K 5%	1/4W
		< TRIMMER >		R13	1-249-407-11	CARBON 150 5%	1/4W
CT4	1-141-410-11	CAP, ADJ 10PF		R14	1-249-437-11	CARBON 47K 5%	1/4W
CT5	1-141-439-21	CAP, ADJ 40PF		R15	1-249-393-11	CARBON 10 5%	1/4W
		< DIODE >		R16	1-247-807-11	CARBON 100 5%	1/4W
D5	8-719-976-30	DIODE KV1560N		R17	1-249-421-11	CARBON 2.2K 5%	1/4W
D90	8-719-991-33	DIODE 1SS133T-77		R18	1-249-393-11	CARBON 10 5%	1/4W
D91	8-719-991-33	DIODE 1SS133T-77		R19	1-247-863-00	CARBON 22K 5%	1/4W
D92	8-719-991-33	DIODE 1SS133T-77		R21	1-247-863-00	CARBON 22K 5%	1/4W
D93	8-719-991-33	DIODE 1SS133T-77		R22	1-249-421-11	CARBON 2.2K 5%	1/4W
D94	8-719-991-33	DIODE 1SS133T-77		R23	1-249-421-11	CARBON 2.2K 5%	1/4W
D95	8-719-991-33	DIODE 1SS133T-77		R25	1-249-425-11	CARBON 4.7K 5%	1/4W
		< IC >		R26	1-249-425-11	CARBON 4.7K 5%	1/4W
IC1	8-759-386-02	IC TA2008AN		R27	1-249-425-11	CARBON 4.7K 5%	1/4W
IC2	8-759-290-61	IC BU2615S		R28	1-249-425-11	CARBON 4.7K 5%	1/4W
		< COIL >		R29	1-249-421-11	CARBON 2.2K 5%	1/4W
L3	1-416-248-11	COIL, MW RF		R30	1-249-441-11	CARBON 100K 5%	1/4W
L4	1-416-247-11	COIL (OSC)		R40	1-249-429-11	CARBON 10K 5%	1/4W
L5	1-416-249-11	COIL, LW RF		R41	1-249-429-11	CARBON 10K 5%	1/4W
L6	1-412-514-11	INDUCTOR 220uH		R42	1-249-429-11	CARBON 10K 5%	1/4W
L40	1-412-514-11	INDUCTOR 220uH		R43	1-249-429-11	CARBON 10K 5%	1/4W
		< TRANSISTOR >		R44	1-249-417-11	CARBON 1K 5%	1/4W
Q1	8-729-905-50	TRANSISTOR DTC343TS		R45	1-249-417-11	CARBON 1K 5%	1/4W
Q2	8-729-905-50	TRANSISTOR DTC343TS		R46	1-249-417-11	CARBON 1K 5%	1/4W
Q3	8-729-922-66	TRANSISTOR 2SC2410SN		R47	1-249-417-11	CARBON 1K 5%	1/4W
Q4	8-729-922-66	TRANSISTOR 2SC2410SN		R49	1-249-412-11	CARBON 390 5%	1/4W
Q5	8-729-178-62	TRANSISTOR 2SC2786-L		R50	1-249-415-11	CARBON 680 5%	1/4W
Q6	8-729-119-32	FET 2SK193		R51	1-249-417-11	CARBON 1K 5%	1/4W
Q7	8-729-922-66	TRANSISTOR 2SC2410SN		R52	1-249-427-11	CARBON 6.8K 5%	1/4W
Q8	8-729-904-39	TRANSISTOR DTC114TS		R53	1-247-863-00	CARBON 22K 5%	1/4W
Q9	8-729-115-80	TRANSISTOR BA1A4P		R54	1-249-417-11	CARBON 1K 5%	1/4W
Q10	8-729-115-80	TRANSISTOR BA1A4P		R55	1-249-437-11	CARBON 47K 5%	1/4W
Q11	8-729-115-80	TRANSISTOR BA1A4P		R56	1-249-437-11	CARBON 47K 5%	1/4W
Q12	8-729-115-80	TRANSISTOR BA1A4P		R57	1-249-437-11	CARBON 47K 5%	1/4W
Q13	8-729-012-83	FET 2SK679A		R59	1-247-843-11	CARBON 3.3K 5%	1/4W
Q17	8-729-029-23	TRANSISTOR DTA114TSA-TP		R60	1-249-429-11	CARBON 10K 5%	1/4W
Q21	8-729-422-57	TRANSISTOR UN4111		R61	1-249-425-11	CARBON 4.7K 5%	1/4W
Q22	8-729-422-57	TRANSISTOR UN4111		R62	1-249-425-11	CARBON 4.7K 5%	1/4W
Q24	8-729-422-57	TRANSISTOR UN4111		R63	1-249-441-11	CARBON 100K 5%	1/4W
				R64	1-247-887-00	CARBON 220K 5%	1/4W
				R65	1-249-411-11	CARBON 330 5%	1/4W
				R66	1-249-413-11	CARBON 470 5%	1/4W
				R67	1-249-429-11	CARBON 10K 5%	1/4W
				R70	1-249-425-11	CARBON 4.7K 5%	1/4W
				R71	1-249-425-11	CARBON 4.7K 5%	1/4W
				R72	1-249-425-11	CARBON 4.7K 5%	1/4W
				R73	1-247-887-00	CARBON 220K 5%	1/4W

Ref. No.	Part No.	Description	Remark
R74	1-249-416-11	CARBON 820 5%	1/4W
R76	1-249-441-11	CARBON 100K 5%	1/4W
		< ENCAPSULATED COMPONENT >	
T1	1-233-306-31	ENCAPSULATED COMPONENT	
		< TUNER >	
TU1	1-475-970-11	TUNER UNIT (EE)	
* TU1	1-693-378-11	TUNER UNIT (EXCEPT EE)	
		< VIBRATOR >	
X1	1-760-130-11	VIBRATOR, CRYSTAL (75kHz)	

		MISCELLANEOUS	

3	1-782-296-11	WIRE, PARALLEL (FFC) (27 CORE)	
102	1-782-294-11	WIRE, PARALLEL (FFC) (9 CORE)	
111	1-452-732-11	MAGNET	
120	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
152	X-2626-202-2	CHASSIS ASSY (MB), MOTOR (SPINDLE)	(INCLUDING M701)
△ 154	8-848-483-05	PICK-UP, OPTICAL KSS-213C/Q-RP	
△ 314	1-575-651-11	CORD, POWER (EXCEPT UK)	
△ 314	1-751-520-11	CORD, POWER (UK)	
319	1-782-509-11	CORD, SPEAKER (L-CH)	
355	1-782-509-11	CORD, SPEAKER (R-CH)	
△ F501	1-532-505-31	FUSE, TIME-LAG (T5A/250V)	
HRPE101	1-500-480-11	HEAD, MAGNETIC (REC/PB/ERASE)	
M691	3-016-425-01	MOTOR ASSY (CAPSTAN/REEL)	
M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	
PM691	1-454-806-11	SOLENOID, PLUNGER	
S801	1-692-960-11	SWITCH, PUSH (1 KEY) (OPEN/CLOSE)	
SP101	1-505-607-11	SPEAKER (8cm) (L-CH)	
SP201	1-505-607-11	SPEAKER (8cm) (R-CH)	
△ T501	1-431-353-11	TRANSFORMER, POWER	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	

	1-501-594-11	ANTENNA (FM)	
	1-501-843-11	ANTENNA, LOOP (MW/LW)	
	1-590-478-11	CORD, CONNECTION (FOR AUDIO)	
	3-860-142-11	MANUAL, INSTRUCTION (ENGLISH,GERMAN)	(AEP,UK,SP,EE)
	3-860-142-21	MANUAL, INSTRUCTION (FRENCH,SPANISH)	(AEP,SP)
	3-860-142-31	MANUAL, INSTRUCTION (DUTCH,SWEDISH, PORTUGUESE) (AEP)	
	3-860-142-41	MANUAL, INSTRUCTION (ITALIAN) (IT)	
	3-860-142-81	MANUAL, INSTRUCTION (POLISH,CZECH, HUNGARIAN) (CET)	
	3-860-142-91	MANUAL, INSTRUCTION (RUSSIAN) (EE)	
	3-864-758-11	MANUAL, INSTRUCTION (SWEDISH,FINNISH)	(CET)
*	4-941-548-11	LABEL, CLASS (1)	
	4-991-047-01	LID, BATTERY CASE (FOR RMT-C305AD)	
	8-917-602-90	REMOTE COMMANDER, RMT-C305AD SET	
	X-3374-593-1	CORD (ANTENNA) ASSY	

		HARDWARE LIST	

#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-247-19	SCREW +KTP 3X10 TYPE2 NON-SLIT	
#3	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#4	7-685-136-19	SCREW +P 2.6X12 TYPE2 NON-SLIT	
#5	7-685-547-19	SCREW +BTP 3X10 TYPE2 N-S	
#6	7-685-851-04	SCREW +BVTT 2X4 (S)	
#7	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#8	7-621-255-15	SCREW +P 2X3	
#9	7-685-645-79	SCREW +P 3X6 TYPE2 NON-SLIT	
#10	7-685-158-19	SCREW +P 4X6 TYPE2 NON-SLIT	
#11	7-682-554-09	SCREW +B 3X25	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

